AVIATION WEEK A MAGRAW-HILL PUBLICATION

AUGUST 6, 1956



ARDC-USA

AIR RESEARCH AND DEVELOPMENT COMMAND EDITION



Sundstrand Constant Speed Drives bring new electrical concept to Northrop's "Spark"

Providing for the many varied electrical loads aboard Northcop's SM-62 "Sourk" Mustle required the never concept in secret elecmiral evenue. 'The "Seark" is morner example of how the latest

Constant Speed Drive ... meet the challenge of stelan's ... and



New Electrical Horizons . . .





Cool busings for hot skips-too of the Nery's most advanced Sphters. THERE-Goodway formed manners are mad now wheels. Condense David RESULT-Condens not the execul resulteraction of narobox state on one BEASON-Goodway and the supposes for phase of advaced dears and drags, production and delivery of the complete wheel-heabetten package on



SUNDSTRAND AVIATION Drawn of Sundatural Markins Seri Construx EDCKPORD, ISSNOTE: Warters British Office Hardborn, California

CONSTANT SPEED DRIVES - AIRCRAFT ACCESSORIES



For aircraft seets, interior combinent and airfranc subcorrubbles INVITE WEBER TO COMPLETE ANY ASSIGNMENT... from design... through prototype testing... to production article.

> Weber Awards ofen yes. Complete research, design and development engineering departments. Experimental and prohipps for little to handle week of visitedly every description to test and power the

DICTION STATE. Widow aposition weeks new sound on country of our

COME SETTINGS COMPANIES. Whiter returner employment of all

WEBER AIRCRAFT CORPORATION 2020 Ortario St. Burbank Calif

AVIATION WEEK

Val. 65, No. 6 PERSONAL SALES W. Martin, In ALCOURS 04710 MANUSCRIM CORNER & Dates

Sportweet. SECTION PRODUCTION Service I factor **ST** Formin Long., Nation Below

PRESENTED SERVICE MERCH OTV 2000

ADVINITURE SALIS BURNASE

PROPER MANAGER II I Safesani

6PDT or 4PDT models, with all the solder has connections



HATE CIRCUIT 1990 OHMS BILLY time range of - 65°C to + 125°C, while maintenance the excellent shock and ve-His expectancy of 100,000 openiture

AC SELF-CONTAINED RECTIFIER RELAY negative report of - 55°C to 85°C Withstands volumbon up to 1909 cycles at





FROM

AVCO LYCOMING-

NEW

MULTI-PURPOSE GAS TURBINE

atility 'empley (Rell XH41)

Note these feets about the TSS:

whose reciprocating engines drive more different types of Longwood's T55 may solve your feture poons with long most

defense and industrial products

WARREN WIRE TAKES OVER AS

HIGH TEMPERATURE SPECIALIST

In all electrical wiring and cables for aircraft, missiles and rockets we've beat the Devil at his own game

WIND . . . HOOK UP . . . INSULATES From the smallest component to the entire connecting system - all can be interested in one complete Class H system - to withstand heat up to and far beyond -400°F ambient. What's more, all these Warren Wire products are impervious to fuels, chemicals and solvents; have superior abrasion and cut-through resistance; and withstand cold to below -85°P.

Class H Wire and Insulation System...

Only Warren Wire can provide a complete

From entire standard. stamped or color-coded Cable

CABLES

MII W 7130 A

WWS00 - for Color-Coded or Stamped

Be Sure - Be Sule with WW 450 . . . and in addition, Save Time - Save Weight - Save

Money with WW 500. The world's most ragged, hose reviewed and abraries-projetant cables of its



HOOK UP AND LEAD WIRE

MIL-W-16878-A

Type E and EE

WARTENEX with extruded Tellen continu

A complete amortment of strandings, distension







MOTORS, ALTIMITIES, GENERATORS, AMPLIFIERS, SWITCHES

MAGNET WIRE MIL-W-19583 SELECONE OF THE COLUMN

- my neuro can be would an ean discussion researt wires must be depended on for long, reliafternoon and flexibility; altenion and corresion up to find her end = 400°F ambang. They have low

MATERIAL FOR CLASS H INSULATION



redetors are dimensionally stable under pressure as exists, ellerly and solvents. These materials are evolsamples and Specification Chart "TOG".

able in sizes 10 through 50 A.W.G. Send for samples and Superferman Chart "WWIGH!"

East Sarvice through 15 notion-wide Sales Offices and Warehouses



WARREN WIRE COMPANY

PLANT AND MAIN OFFICE: POWNAL VERMONT - WELL OMING, IL . PRESERVE - ATLANTA - DEPUEND DETROIT + COCCADON + GC. HOUS + St. PARS + PRODRET + SALES + SPACES + 105 ANNEXES + 140 STANCES + 14

Handerbook of Piole Second, National, Foreign, National Section, Milesea and Talley Massest William Tellen Hook-up and Lood Wire . Timed, Bere and Burched Copper Wire.



In aircraft, in vehicles, in the plant—
use turbine wheels made by Austenal Microcast

Wherever you use power wheals—for uppersons jet engine,
Good registes, compresses or autocharters.

Austral well mike them fusing, better and more economically. Wheels anuadratured by Microscott as an Americally of higher quality, neere deemble and more efficient than those made by other possoness. Tetermoscott emerce—you have the wheel you need, flustrain islensibly and externedly, in vientally wheel you need, flustrain islensibly and externedly, in vientally deeper them to be a second of the possoness of th

... It's NEW from Austernal

Assemble has developed a vector assistant last developed a vector assistant ladd to care alloys not proviously assistant ladd to care alloys not provided the ladd to care a





Stripped for action in .015 seconds...

WHOLESTER NESTEEN IS SEEPPED TO HANGLE BEEDEN RESCHAEGE, TESTING HER PRODUCTION ON

a Activey marks and plants compensate

in Provide exhabited distress, mortal Senempy controllers grown requirements in Referent research and or a ligarities present, controllings. S.Ammang manipassions of inMooch 2 or better, doe E 100 km wing stake 'm; n n spit a sood kandt spial kinster Wardener Winnere Street sneghte register of internal and certain beldered became accessingly empower to of entire mender. In the spirit determinant of the spirit determi

And New Honor, Coan.

Employment requested we are accord from good feel employment and according toward from good feel employment and according toward toward control in the seek of companies.

VICKERS

NEW ADMINISTRATIVE

and

ENGINEERING CENTER



Dedicated to the Development

Hydraulic Components and Systems

Viden, a present is all hydropics for a wide variety of use, has

extensive research. Continuing rapid suparation of the oil hydroxilic requirements of industry has knowled with fifthe need for originated research and engineering facilities. In neet the seal, Violent has put completed this new booking on suburban Debott. — 150,000 agains feet dissided eitherly to research, development, originating opplications and a claimateriation. A milester in Vivilean pagengs, it is over Administrative and Engineer.

VICKERS INCORPORATEO

ADMINISTRATIVE and ENGINEERING CONTR.

Application Engineering and Service Offices. II Engenite Collection. 2146 E. Impariel Maltury Overt Et. Michigan. Will Release Hard Service only a Adingon State. P. O. Sec. 2514 Windows O. C. 2417 Wign May. 2 Additional Erect Incollection Host Engine, Printing 441 Co. Lett. Selvice.

Third seal, values will be not a TRITTED BOT BOT SET + Call I value 7207

THOSE DESTRUCTION TO SET IN CONTROL - Call I Value Assets also Justice

Residence and Australian of Call I Value of the Service and Australian 2007

How Holley's
Compressor Governors
Help Now Jots to
Supersonic Speeds
**Topyward AF the same all time (ab.-7)
panied File (3-16). The abstract of the control



AROUND THE WORLD WITH SIKORSKY HELICOPTERS







ARMA

THESE weather items prepared in consultation with the United States Weather During TURBO-PROP OPERATION





In twice peop specifies, popland and fail performance me cloudy and singlest. When advantage the fails theorement, govard temperature is more of operation plot, an appearing twice COGO CHAMS—TANA CHARLES WARD planta planta me book on series to the contract Charles Charles (the contract planta is to be on the Under these conductions, they are Mobiley 6. Which series peop to purely and work of the first plantage compensation or purple and work of the first plantage contractions. When the contraction is the contract plantage contraction of the contraction of the MARLE CHARLES (to womant claims where the ground integers are

bleen at not acces, Middle Entr Aslanes gar top performent is as Viccounts with Mobiles 1 is of these high-grade forth provinces the contemiling quide;

For Top Flight Performance—Make it



THINGS STAINLESS AND ASSEMBLIES DO



and premuoe effects.



Spipion statistics sted essentition on convert temperature and presure changes into movement that makes or breaks switch contact.



STEEL BELLOWS BEST









Rejentation Fution Controls Co. PULTON SYLPHON DIVISION Knowler L. Temessee

7 0-9











20 years of smooth flying for Douglas











LORD MANUFACTURING COMPANY + ERIE, PA.

From advanced research into the fundamentals of the universe-provity, nucleotics, astrockywica - to the development of many of today's most important flight and weapon systems, Martin en-



terialise, watch Martin today.

MARTIN













FOR THE AIRCRAFT INDUSTRY



SPS PRECISION FASTENERS



SPS HI-TI titanium bolts are manufactured in both tension and about types. Tension-tension firtione test data and other pertinent technical information on these brish-strength. lightweight floggeners is now available from SPS. This material, the result of more than 30 months' intensive research and development within the SPS organization, is obtainable on request. Write today to Aircraft Products Division, Standard Personn.



MS 175401 through MS 175900 Noment Democrac—652 through 500 Procureme Secularities AMD/307











All som External forsages based upon or reterned throughou socket band-type. Mode of argent older steal or corruscio-resolutes until Specific with defined based on deviled short?



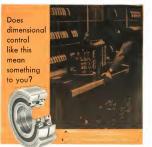




SPS HILTI TITANIIIM ROLTS

Street, Co., Jenkintown 3, Po.

SPS HAS MA SERIES INTEREST WHENCHES DOLTS SPS AN STANDARD A MICH CASHES MIN'T



There is a software expected above a time resource of covertion becomes being used, by this degrees, still, are functional an evolutile are without the functional baseing problem to suppress a better opposition.

The resource device discussed in a false contain.

The resource device discussed in a false contain is a superposition of expected problems of the connection of the contained of the contained as a superposition of expected point of the contained and of the material segments and readours of space for the contained and the contained of the contained of the false use engage from the design and resources of the false use engage beauting that and Once commentees overeal from the and berrangs not unifie reside. Both respaises special intering food drough so application. The annualizative of jet negree bearings referen the not actually and approach for solving bearing probies. Perhaps shot consistenties can belly proc. Genetic

FAFNIR



Packaged landing gear for Lockheed's



SPECIALISTS IN AIRCRAFT LANDING GEAR



The remote corners of the world are now necessable to succeast designed to include the Strodard Particione baseling system. A product of Strodard research and development, Particione will permit historing and talked for from 1000, jue, water, used and unsuppered terrain as well as straderic curroug. The amended was ability the accretif will indicat the nost for comparticion and the straderic permit and the straderic permit and the straderic supplies the straderic permit and the permit and the straderic permit and th









Achievement is a tradition at Stroukest Leaders in the development and



NOW AVAILABLE ...

with sent banded in BOTO

runs in Counting and Base Palm

· Grown etsel one . . . 5-

-

SPECIFICATIONS

the One hermetically-sealed rotary switch

POSITIVE SHAFT SEAL!

ELECTRO SNAP

Specify ELECTRO-SNAP H10-7 for the only retery switch that is positively

hermatically sealed — not merely equipped with a right-fitting packing around the shoft. The HIO-7 seed is bonded to both shoft and case, which is evacuated and pessure filled with a day inert gas. Repeated actuations will not leave the shoft 2-both prompting and

the spined shaft will not permit slipping of the actuator arm. Simultaneous make and break (recordless of

speed of the actuator travell of up to 4 separate directly permits revening of 3-phase sectors, submithion for expensive relays, etc. Designess can make excellent use of this electrical versatility and freedom from environmental workers. Obtain more information on the HIO-7 by writing for data laket H 10M-8.

ELECTRO-SNAP SWITCH & MIG. CO.

TOTE THAT BARGE... LIFT THAT LOAD!





Scores of different hoist designs have been developed Address General Offices, Western Gene Corporation, P.O. Box 182, Lurwood, California



It's always a short hop to



And whonever was land at my Econ Bealer Air-Wherever you fly -- from Masse to Team -- you'd





SUPERIOR TUBING

REST FOR 1001 AIRCRAFT APPLICATIONS



Superior can supply off your small motal tubme noods with promisin quality tubing that meets all these requirements; light weight; close tolerances; workability; ability to withand high pressure surges. Shown here are some of the many arcraft applications for tubing, analyses in which Superior makes such tubHYDRAULIC TUBING

FIRE DETECTION EQUIPMENT

AIRCRAFT OIL LINES

AIRPRAME STRUCTURAL TUBING

Produced in C-1025 carbon and to Specifications MILT 5005 and

AIRCRAFT ENGINE PUSH RODS

DUCTING AND FUEL LINES.

SPECIAL TITANIUM HYDRAULIC LINES

MANOMETER LINES AND PITOT TUBES

OAGE BOURDON TUBING

AIRCRAFT ANTENNAS

TUBING MATERIALS Superior produces not only a wide variety of

Super Alloye The first around environing some of the saper allows from

Meterieta The sendones lated below permutely offer excellent expla-

General Burnose Meterials







tor Premains Brawn Gleaures Quality Metal Stampings Silvar Soldering, Braxing

> Shael Matal Work Paris Fabricated of



Producers of Cases, Covers and Caston Metal Stampings for Electrical, Electropic and Nacional Industries





















keeps pace with the growing existing undustry. As new problems occur with conveys in aircraft development. tion to places fix higher, or feater, or web greater load

out the bem" with contempet that cook, previation. new adaptations, or custom-made designs, Eastern is stady to caset every challenge for equipment that





Familia is find in the development and mentificiars of a gooding that of advanced always to accessories.

Seamwells offers the U.S. invarious advanty a proved source for specialized eleptrolist, by drawlife and mytherest for components and mytheres.

ANCE: SIMMONDS PRECISION PRODUCTS

Lefteweight. Presince: Feel: Gage: Systems: Fool neconstructed and fast are appeared systems excepted and its 44% latest selected in operator systems excepted as with latest selected interpresentation as convertible in the fastion of Posterio geogene systems. Consistent of the fastion of Posterio geogene spilled in the fastion of the

Stitutionals SU Field Reprotest Systems: The only advenced type fast injection system now as production for modern in patients engines, the SU System has been proven as field not so give economies, up to 25% Remarkates their problems, and print amorrised cold

Precision Prob-Poll Controls Sentrode Prob-Poll Controls are possive, protein and regard Capable of beny fields and accurate operation under vibration, continuous cycling Emperatura continuous, del Protein sin military of controls of the protein continuous del Protein Controls of the Protein Control Capable Controls of the Protein Control Capable Controls of the Protein Control Control Capable Spirit Control Capable Ca

aixenfi taches for insidiation on cowlings and panels. Two-poor signly type construction, nonit is vide most of sirectional convisions. Used a fully for attachment of plants: indicates and detechnicle shootweet. Perfision of latch desurable on reason.

See or request

Explosion Suppression Systems: Drogged to provide
protection against the most common single cause of the
loss of quadra attentit—explosions resisting from the
ignition of fluid/six motivates. Now figure on U. S. comhot asserts, this is a nonther Summand figst. Further

Simmonds

General Offices: Terrytown, New York Issaek Offices Daird, Hibligae - Brytes, Ohio St Lavis, Manuel - Dairie, Terre - Wichia, Kesses Standah, Collevia - Bairle, Vesbelger Sele Greates Vanceau Simonath Americanska of Censel University Simonath Americanska of Censel University - Machinel



PROPERTY PARTY STREET, STREET,



negative problem...positive solution

Removant motal accurately and uscally can be a probthe specific machine tool operations required for the

augmented our staff with tap-dight engineers. . to

make available to you -- as agentions to Amelson's export-

Our expanded facilities are equipped with the most ,





In each simulators as this B-47B Jet Flight Struckton, pilots develop commer













More than a decade ago, Narraco prosected agreeast adhesive hondarga desire prodution that has since enabled compares to held unparaisieled strength and performance into structural components by the very nature of this uniquely efficient fastyping method. Tuday, Naturely

accumulated skills stand behind a distinguished line of customdeveloped achieves, unlighte Methond* 500, a unit-ourpose supported adhesive designed for metal-to-metal and sundwich applications requiring prologged temperature interrity to 500°E.

structural adhesions the standard of reliability throughout

NABMCO BESINS & COATINGS COMPANY, DEPT. 741-400 Victoria Street, Costo Moso, Colifornia



Now! ADEL offers a new line of HIGH TEMPER

MINIATURE VALVES



frequirement dominated by today's accelerating Performance and environmental demands, in contraction with design same lighty, also and weight-all requirements a valve meat faceare sact by these revolutionary new models. Months and months of extraoring conjugation time in all fields have gone into the develop-

THESE VALVES ARE NOW IN PRODUCTION. OUR ENGINEERING SALES REPRESENTATIVES ARE READY TO DISCUSS THEIR APPLICATION TO YOUR REQUIREMENTS



EURSANK GALIFORNIA - BURTHESTON, NEST VERSINIA

Your prime source for

8463 Higgare St., Culver City, Conferedo

Offices to preserval cities of the United States and Counda



YOUR WATCH IS YOUR TIMETABLE EVERY-HOUR-ON-THE-HOUR NONSTOP **CHICAGO NEW YORK** From 8 am to 8 nm New York to Chicago. and 8 am to 10 um Chicago to New York. AMERICAN AIRLINES

PLANE FAX



A four-day pack trip in 45 minutes

Diving appartunes trans hillshoft beganner purreller. The Kirkhit covers the 20 million is the regard Solvey. Their test Arm as less than me boars three takend from his busine sort of Dovids. He deep nits near traver compant to the parameters, then are trible other bretten and their heavy game had it is obtilisations.

"Almost all may lying a one renegle himber country," may the Buildhoft "he make game count from the ear, eleck the country of the solver travers of them the ear, eleck the country of the solvers of the solvers of the country.

on of a major where the are in right jost and deed, Chrotica Accision GonWilee (Soft) gives full power with we knocking. It move fools plugs, either jords Chevron (N/WT Lower-dome than them to 200 has checks. "Sur'd klick we'd how ring and value troubles because if the light right supportune and frequent schools, but RF11 Accision Offs girls full time potentials. For girl and the major has the contract of the contract of the contract how models with making values (2007) is thus more how models with making values (2007) is thus



TIP OF THE MONTH

When influebrage lance a Difference in the transfer for expansion
Every 10 guillains of cool gas or
expand so much to its critic que





DOUGLAS AIRCRAFT COMPANY, TULSA, SOLVES DIFFICULT MATERIALS NAUDIING BRODIEM FOR INSTRUMENTS



Face parted and two rigid Faultiess Spring Author Grains with prendum-prend

and the compress every on the notingue color application men-tioned above, simply cell year local Finishers Canter Distributor Birth in your phone discretely, or write as today. Two of mony AIRMASTER Costers







PAULILISS CASTER CORPORATION

AIRMASTER

CASTERS

Cagor wheels at gland

tally percent of the endpowers look conducted by one

Air Force "Super-Snooper" sees all....tells all





Reconnaissance television moves GHQ directly over any target zone

PHILCO is Currently Engaged in Lang Range Industrial and Diverse Military Engineering Fields * Quided Mession * Busine* TRANSAC Digital Computers * Underwater Onlineau * Bowlers and Fue Central Sastrem * Serve-Mechanisms * Microwery Communication Sastrem * Infra-Rad Davicus *

Breaklete Covar Application + Multiplex Squipment + Television Roley Systems + Industrial TV + Color Brandwart Banksmart & Fernand Scotter Communications & Fire Control Systems & MEDAP Philos affers a wealth of career appartunities for qualified engineers

CORPORATION DOVERNMENT and INDUSTRIAL DIVISION - PHILADELPHIA 44, PENNA





AIR MATERIEL COMMAND IS GLOBAL LINK BETWEEN RESEARCH AND COMBAT UNITS

Somphese the Air Picce with the rafte experient; at the Command in posteriorist steply and measurement queries and III do not be consisted and posteriorists of the control of the control or most off the face becomes and and devolute or a test and the control of the Document and Air Some or speciality and only Document and Air Some of the Control of the Document and Air Some of the Control of Control

maintain, Actor, passers in including main worth the feet on well-upon and bestel by the Ac Benevich and Development as evolved and bestel by the Ac Benevich and the Actor of the Actor of

The trace of a porter of obtain the technical activities of the Department of Defence

PORD INSTRUMENT COMPANY

NYISION OF SPERRY BANK CORPORATION

33.15 Thamas Assess, long bland City 1, New York

estimally, AMC rachalos fourtous air material meas, or







for a clear view ahead and comfort abourd the Martin B-57B



oppes of mileary (irrls, Bathel Colteas Company produces some more temperature converts for source) factors by 32 Sealing the many temperature converts for source factors by 52 Sealing the operating their over multi-respons planes. The complete fact of Bathel Colteas sourced converts includes Actuation, Postening Convols, Temperature Convols, Sealing Mones, Virtue, Ultra-densitive Radio, 'Dettor-densitive Exsense: Consist the Bathel Colteas engineering sales office seaony to Lie August, Smittle, Bathelmort, New York, Moneral,

Barber-Colman Company
OPF. R. 1922 BOCK STREET, BOOGGED, ELINOIS
APPENDATE CONTROLS - AUTENATIC SCHOOLS - I BOOGGETAL INSTRUMENTS - I BRANCH APPENDATE - APPENDATE - CONTROLS - APPENDATE - APPENDATE - CONTROLS - APPENDATE - APPENDATE - CONTROLS - APPENDATE - APPENDATE

CPT

Creative Pioneers in Transport



















TECHNOLOGICAL



GFNERAL

ARRONAUTICAL SYSTEMS

In the read voil enterhelmen to the propose of plantam and in equivament as the read temperate field. Many manufactures are the read to respect field. Many manufactures are the read of the

PRECISION

92 SOLD STREET, NEW YORK 26 NEW YORK

BENCH MARKS

Il genula, Tet 2 provides accounts burshing believastives and leiphodes, an engine leaves [1] for the Control of the Control o

ion he which GPE Champades, working an compaction which the truth Eventure, are required his classically as the truth Eventure, are required his classically as arcticated and expected for the field. Lebescope is accurate and expected for the field. Lebescope is to the subsequents as highly above of expension for please and the subsequents are considered as the subsequents and the subsequents and please that, it is protective, please to the unique property of the subsequent property application, and compact play you are not as exactly applied, gentled country property and cutton restore process application, the subsequent play and the subsequent property application, the subsequent play are negative to the country of the country of the country of the subsequent property of the country of the

EQUIPMENT CORPORATION

THE OPE SPICES AREA COMMING & Admin Republic Courses & Block Gines Copie Green Logic Comming & Market Horizon Comming Comming



JET LINERS NEED another GPL first

A billion dollars worth of irt ale lines. eir à ners post-porblems affecting both the safety and need neither ground aids nor celestial fixes.

The vital navigation problems there sets surport congestion and delays. Ranan will

For further information, or help with a RADAM Systems enable a prior always specific technological development problem. k the our kest routs to his destination write to:



GENERAL PRECISION LABORATORY



BENDIX-PACIFIC

For Systems and Components



Beerlof Asiatina Communities











Design ahead with WEATHERHEAD TOTO TOTOS

SWIVEL JOINTS



Present-livinged . . so high faction regardless of

Wide energing pressure rouge | | 0.5000 pm Treable free emeration thru entranes temperature rough



THE WEATHERHEAD COMPANY Aviation Division

THE SASY DODGE STREET & CLEVELAND, ONLY









HOW FENWAL'S THERMISTOR OVER-HEAT DETECTOR PROTECTS CONVAIR'S F-102A

Wrote for complete data to Ferwel Interperated, Avietion Products Division, 123 Pleasant Street, Arbland, Mass.



Controls Temperature ... Procletiv

THE PERSONAL ANDIO COMMON USET COUNTRY of a black months founded resultion.

It has no report of 20 30 voits D-C at 95 curper or materiory. Look or facts over related a 20% DLC or 2 compares measurement coloridate. The capacital couple of the unit in 1207 de20%, 20% de20% in the set or president coloridate of 20% measurement every adjustment recognition of 20% measurement every adjustment recognition.







4 good reasons why...

every fighter, every bomber,

every transport is











Precision Parts by the Yard!

By the Harper extrange method name Here are rouse of the advantages. glass as a Jebruare, it is possible to form introsec pages as rapidly as you · Our's definers in assured

. Wide range of shapes is available An illustrated book "Fattanians by





Mast of SHELBY SEAMLESS TUBING provides high strength and

corrosion resistance for coaxial antenna

surrow renew of 152-176 MC, in especially three vertically arranged disolas exhibit a with equal reduction in all directions This 13% foot, 40 pound extrono is not Tobing (USS Steinless Steel) regging

through its center. In addition to possessing most has high corresion resistance—will not



Y SFAMILESS MECHANICAL TUBING

.

Bendix BRAKES WITH GERAMETALIX*



Thou two were made for each other-Haralty' For Gressetsky living was developed by Pendy, for me in Bendy't bushes, then, the brake stell was proportioned to NO BADE. The result is a healer that will not finde, fine or MESS MADVEYANCE. Use, less time and expense are required. NO N METERS. The living material stell is a good conductor

It all adds up to a new birk is head performance that meets the children of stopping increasingly factor and bouver arphanes with a broke "package" of mecanically Caronetolia-an entirely different kind of

As Higher and Higher Altitudes Are Attained STRATOPOWER HYDRAULIC PUMPS ARE THERE... AND-HOT JUST FOR THE RIDE!

Desired for temporous's surgest / There the learners of the early Avvent. Revists, Guided Mastics or Satellites . . . the PUNP responsible for the design of hydroxilic systems for these vehicles provide a sure source of Fluid Power with-

STRATOPOWER'



The 65F Series Fixed Displacement Pursus and the 65W Series Egraphic Delivery Parisa are demonal to aperate dependently 10200 ram. These Purips ore hight in weight and have greentorsaly high horsepower/weight ratice The new STRATO-POWIR data on con coathy be referred in hit amount recomments. to enve space and weight in arrorat and missiles where every pound seved in truly more than worth its weight in ould.

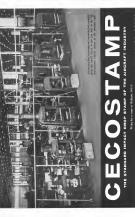
In the oir and on the ground, STRATOPOWER Hydroub; Purps carge reliable hydroule Utiley Systems and Boost Auxiliary Power Units Rudge Sommer and Stabilized Plottoma.

WATERTOWN BITTERNATIONAL TALES COVICES, TO WITH U.S. SEN YORK & M. T. would like more advenuelon on

Mone. City ______ State ____

BENDLY PROPERTY SOUTH BEND, INCLUDE STATE STATE STATES STATES AND A COMMING STATES AND ASSESSMENT OF THE PARTY OF THE PART









Horsepower





Thrust

The Happy of Wester-Gordon's of the Brits mechan







WYMAN-GORDON COMPANY

FORGINGS OF ALUMINUM & MAGNESIUM * STEEL * TITANIUM HARVEY, ILLINOIS . DETROIT, MICHIGAN New to be SUPE your FGT and DPM Systems ere RIGHT...

Charle with the R & H Instrument ETCAL



Two of the most important factors that affect jet engine Illa, (EGT) and Engine Secol (RPM) Excess best will police ellicioney and though Any of such conditions will make operation of the niron't both costly and disservois. The JETCAL columnity). Techniques evolume and impleme aroses if they exist.

tures. Wate, were or phone for complete information.

Tests RPM Annurany to IN DOM IN TO DOD DOM (+0 190)



D The Brins, Analogy Associately, may \$607 the recommit of









expand your oscillograph capacity as your

with the
HEILAND
Series 700C
Recording
Oscillograph



SALES-SERVICE FACILITIES AROUND THE WORLD

Friland INSTRUMENTS





AIR RESEARCH AND DEVELOPMENT COMMAND EDITION

AVIATION WEEK Test Pilote Evaluate and Evaluate

Arnold Tests Feture Wetness Systems 202 ... THE CRITICAL BACE FOR RESEARCH ... 21

Combridge Restaura Aurial Workers 200 Rome Place Interregal Communications 252 · PRODRESS PROVES AREC'S MISSION VITAL . 24 Asianic Communicate Day for Revolution 2017 ARDC Hendamarters Organization Chart. 30 Avionies Makes Airplanes Into Worplanes, 302

ARDC Procures Technical Competence. . . . 82 MEAPON SYSTEMS HANADEMENT AS Pleasing, Management Suppl Development, 100

Patrick Exponds for IRBM, ICRM 106

Helleman Meets New Mitelle Tarks 127 Socket Base Tests Mostle Powerphate. 143

WN-125A Noves Neurer Reality 165 First USAF Reactor Due in Two Years. 173 AB.36H Checks Out Alchorne Reactor 175

· COVER Northman Smark Faring at Patrick AFB

This special Air Research and Development Command Edition of Assainst North was removed for the E. A. Am

Availon Week editors traveled \$8.000 unles be not on exceeding the assignment, They covered ABDC headquarters children releasible. In the office, they removed complete and effective consecution from Lt. Com. Thomas, S. Donne. AFIDE communicate and big staff.

e GEOTHERICS DAY Georgicoleius Survey Bealm of Flight. 369

AFAC Pure "Cutting Edge" on Agranger 307

APONE's Contractors Evalues New Areas ... 325 Bequirely Links ARDC to Europe's Science ... 337

Henry, Factors Integrates Men, Machines. 343

ARDC's Technical Acces of Interest 385

CONTENTS



A Message from ARDC

In the accomplishment of its whol mission, ARDC has investable service, not only to ARDC stuff and to its terri-

Mor is it sufficient merely to one statistics observings industrial concerned with the race for qualifornia soprem content, so mother how impressive they may be. For 1800's In providing a comprehensive account of ARDC, its concept

The Critical Race for Research

The supposes research and development in-

system of sufficient superiority that will offer

stream of responsed technology that can be ap-CRITICAL PHASE

ampower to promote its contracts and political

estirent to work together toward efficient and

by creating the As Research and Development ARDC has been aware of the accreeity for beau-

documentum arount on loss ARDC molded its Amount charges on house male without are more.

*Lany term fiscal and reduced planetty pal-*becreased emphasis on laser research and

. Memorie alemains, fembus and construction

*Increase in the preventage of its resource * Incremed combosis on to broad odo about

-Robert Bore





























Progress Proves ARDC's Mission Vital The U.S. As Force a ratios the cost of a technological devilencent

sures that he are with week or forces and airhome can trabing process and shows

ment of to facure declar oil may entire blooders and reads solution techniques WDC tado is a column deschipment with in WDC Identifi-Press - MADE are fan it benfereiker

service D. C. I and assessment of the state of technological de-

· Isuzoing technical complexity of

sal sec. Shorth also ARDC up on

spended by ARDC as described at · Impaces quality of fetas; USAF nemons. This is effect disorted to make . lacross whibilly of respons that

New Policies

. Closer partnered to with industry and sammer ARDC pulses clarges have

lows and promov to trus crotics, possite. Gen. Edward P. Micking.

DSM . Waterly Director of the in Hig What point joined ARDC percenties. ARSC, and community,

and become factors and headed by May

a Donatory heated by Mr. Con-

you and chadure county to ARDC to week Before the country of AEDC determine the prohible rechangled and then then up as ARDC open reference to the control of the cont

Functional Communicati . Long-range pleasing it is obvious AKDC healmeten is now as

been established in ARDG hardware · Marrier and useer vehicles, headed

AIR FORCE COMMAND AIR MATERIEL COMMAND a TEST CENTERS INDISTRIAL

Work by his mores at ARDC healsponsible to supporting the mara technical measure of MIDC in obsdevelopment and test fordities, owen'd ARDC also has been special deputs

WEAT RESEARCE & REVELOPMENT PINCAL TEXA 1996 Six Millered BY ORBICT AMBEATION TO ASSE Amenantum & Soluted Supplied..... 424.4

PROCESSMENT & PRODUCTION PROCESSION STATE BAR

TREAL 2.320-5

At the year ten. ARDC - nech.

High Risks, Bug Goins

· Space: A whole non sources of bean

Budget Hendicep

Richard E. Harson, action Asserted Secretory of the Am Tones for Knowech

techniel duester at ARDC's Art Force Celif. Nem 1997 and 7955 sup-

hands as to consume arracle radiosome USAF offers, ARDC non has home made on a result of ARDC's of

Assifice problem erro in which possic now in ARDC-the is 16% of and cofference for th fature take.

ARBC Research Program Titles Susant as cores on al other mange to said allitery purpose

Offices leading to new sources and new ways of achestrar and may of chemical about

5. Receased as the Electromagnetic Spectrum Supposed on the alastic managed in participants and interest and confedence of these alastic participants.

lancersk op Dyworks, of Flord Plant Concernation on dynamics of fluid Sew under extreme conditions S. Research as Names Pferformer. S. Rosearch on Reals Meterials

1. Recepth to belorgeties Headiley and Assiya's

Recognit in belongeries Heading and Applyin.

Studies an energy settless! bending and analysis of selectation for sortal eliformy. 18. Benneth on Turnstriel and Extra-terretrial Phonomen Records as Turnested and Euler-beyouthed Phonement Offers to find new body metalok bases; describin properties and new uses for known





ARDC Procures Scientific and Technical

Baltimore, Md., In the Air Research and Development Command. ARDC's forestle for producing qualitative superiority in USAF's even and Contracts are written for research and development work safter than hardway, and they are written assists the expecities of secole rather than

new expelsions a better quality of AMATION WEEK, Assur & 1856

Competence

* ARDC covert rescaptes the many

the space file at ARDC certain and coon for additions. · Contractors somewhell by proved office and capacity-still a passay

PROCUSEMENT they are vegeral to keep about at

similation of contracting with ARDC

Constraint VIDC Healauster Bry * The Industrial Sources Street of

Sellien to ARDC

ARISC been west of count by neighed

The Consumed and the Descenter

VIDC : presin cod-product is a

the othern alicens VEDC is se-MRDC uponts from 5750 to 5500 series or records and devaluations ARDC has agreed some 3,000 new con-

Concepted regressions seeks in delice and proposingly or our of

Ouce a USAF pray we has been ARDC - hands, monet officers are ad-

UNAL swinter to put a premium for the

ANADON WHE Armed 6, 1956.

the embleton, inducate beautiting decision is to put more more subsidia

WEAPON SYSTEMS MANAGEMENT



Planning and Management Revolutions Speed Development

WADC's Technical Know-How Supports Weapon Systems

Industry Role in New Weapons Increased

effected a vanishing in the rac of planning and measurement shifts in on industry's effect with the good of getting the minusers never from Aprel Explosis on planning and encorproper has been satisfaced at a time when the second sudastry is faced with an engineer fragine and the

ARDC is lower resemblety for the desire, development and per-

In curries a new deputs, ARDC's

Cen Beed is the tee may in the the As Motorel Commind, ARDC

No. Con. Albert Book, Streety Corp.

. Beir, Gen. Don R. Ostonder on * Brig. Gen. Ivan L. Ferrage on also

USAF a nuclear powered ancest as an

con AFB, octode Dayton, Obes, but if the Witten System Praint Offices

Secrets Shared With Industry

coloration that will belo ARDC de-

SYSTEMS MANAGEMENT MANAGEMENT

WEAPON SYSTEMS

AVAITON WHEE Aspect 6, 1916

· Giv. contractors adequate gridance Cal Language estal the case of one form which it has determined to have . Shorter the development cycle by get

Orl CG Kiles

*** WEAPON SYSTEMS MANAGEMENT**

Transfer of Intermetion

Technical Race With Russia



greducts U.S. Military Academic 1922.

can Office, of the Descriptor of Son-

u deltred in ARDC as referred, plea-

narray offers out the root profession Procedure for Contractors

Origin of Requirement

Adapping that the documents are

*Maratson a muster control of visits * Satopard projector referencion.

AVIATION WITH, Aspen 6, 1956

codeca.

Propository Date

55-17 Atmospheric Physics 55-19 Attends Wearnes Application and

#Seets 55-17 Balleon Compressed:

Index of Technical Program Planning Documents

55-1 Apples Bomber Sefense Abbres Seriespented Preter

25-27 Names Engleswing Air Corps Families 55-59 Faces Statut is bitelligated Abrerth Sighting Alreadt Moletonnes and Sur-

U.A. Air Perce Nation and Vibration tracters undertook studies. Two \$5.32 Mondy Subferes 23-25 Manifest Rooffing Engineers 55-11 Air Perce Trebdag

\$5-25 Morleyfor 55-76 Second Parters Information CS.-CT Search, Markillandian and Tea

55-43 Stretopic Families 55-44 Tection Funding 55-29 Finisher Fire Control \$5-47 Test betromestelles converge, given by client dates

Systems Micromywest," our ARDC of

by AMCABDC's Sorror Schotto

Long-Renge Femilie

WEAPON SYSTEMS MANAGEMENT

In about its murfly ANDC's Deep

An cussolic eited by ABDC is a pro-

To enhant coults, the contractors factors what mindance systems count or comes segret. Technical loom/older

AVIATION WEEK, Aspect 6, 1996

WEAPON SYSTEMS MANAGEMENT

· Establish WMCV or consenting *Establish and warning a receiving neal and countried coefficient

· Hardle procurement scheduling, · Mayber connection of those Circuits

excellence is wifen such that com-

ARDC were less costact with the cut true from the development redu

- 69 % RESEASON & DEVELOPMENT

*Co-ordinate its Sectors Development

Fixing' a System

Gee. Exces end WSFO Under Cox Fitts WSPO has

AVIATION WEEK, August 6, 1996

Completed Weepen Systems THE WATEROOFL THE 3 YEARS

Moule System, under Cal. W. H.

about her, block hove, commerce,

Call Affect porety out that a General

The medical is a shortful WSPO of corner co-substants of calcorates. good of it from magnifectures and . Make contributions to the state of BSSPCY will stoughtly his selection with

. West to do the sol-





Wright Supports Weapon Systems With



Wright Potterson AFB, Obso-Wright An Development Gregor, Sept. operent Command, today is a prenci-Sustem Project Officer WADN'S graters in speciation.

Researly, WADC a job is to spensor.

AVIATION WEEK August 6, 1956





Technological Know-How

Laborotones Reorganized source orange to treepons grounder, Eight control and consil reconsuprance. What

AYLATION WEIK, August 6, 1996.

WSPOS & ESSPOS

cu-secration from WADC's Moon

force) in Alepho and 1000th Agrange



. WADO

The Centractor's Role

Yelus of Rosperch Plans

labora between contractors and AMC's more werk done on netraceal sub-un-

NEW STRUCTURE TESTS ARMY CARGO PARACHUTES

ARDC's Largest Cowter mentaned in ARDC. There are 200

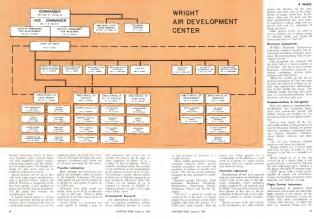
An introducted decrety is estabetween Much I and Much 2. The individed sets dears, recomment, seen

Pewerplest Leberotary



· WADO





Acriel Reconnectionce

* WADO

reals, the KB 5 will out does on the





WDD Guides Norion's Ton-Priority Missile Proproms Poteick Francis to Meet Long-Bange Missile Challenge Hallaman Arbis Facilities for New Missile Test Tooks

MISSILES



TIME WELL SPENT-Northern Average and pro-



Plenters in All Weather and Politica Flight AVLKTION WEEK, Assect 6, 1954

* WESTERN DEVELOPMENT DIVISION WDD Directs ICBM, IRBM Development

Les Augeles-The nation's highest proofs program-development of a family of stategic bollions remoles to the leadership of ARDC's Western In May Gen. B. A. Schrever WDD's job is to plen and develop the laws some bulletic patrole and brond rowing magazines of a

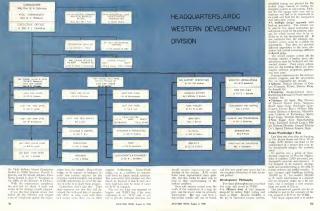
voices patern contact. It requires

Mer, the Errord Adaba Schrieger

later for development, \$542 to

HQ USAR

AMC's Peri But no matter loss efficient un es





About 15 years will have copied between the face right of the Atlan and that of the deduct relative, the German At (V.2) Hyper pay become the test studies leading to Affac and the Not your m a loss from on the adoubt of recessor romes. A decide resouted the start of the Germa expen-

These one more flow time possible between the German But too big a part on he charged against false economies,

4 1946 First study contract on MX 774 loss more belieby stred the solution between solution so-

Ballistic Missile Chronology

1975; Second study contract for to Contain for MX-1975. loss made smalls. The stack council a low priority street at relating a minute at one or two density. * 1952 1953: Blook through in thermometric technology at

1917. A supply think assenting weapons technology was #1972 Studies Music Dulation Connettes was estab-

1954 In June the his Records and Development Com-. 1595-2945 Aparametrals 6,000 V 2 resists were built and Harder Officer and the Ramo-Wooldrider Corn's embel senie receds draine. WDD was to set at overall assurer.

The new damps of R.W. up county) - to and no fermions, recent wedden-

Ballistic Missiles Office

AMC in Los Augeles

tracts are rematered to the BMD

ARDC's Western Development De-

WDD of an evaluation board right

Not ten is the embledement by

is forwarded by WDD and BMO to

· PATRICK



SPECIAL RAPONE ON T-THE TESTS AND EVALUATES MISSIE COMPONENTS

Patrick Prepares for Ballistic Missiles

By David A. Anderson Potrick AFR, Fis -The IRRAI and KRM test proposes have trapped on explosive expansion at the Air Force Missile Test Center. During the next two years the center most approximately triple its present program combility to meet test requirements for hypericus; a capon process with interconstructed crosses and to largely increases version of shorter-more intender. The list of active projects then will include mission of

To headk the workload, the cause as bounds to see outselfs and electron-

Present Ranco



But you the middle super to smooth needler requirements of the BRBM.

* Prenance total about 9,500, Approve New construction is ever-where. A

SANOVA DISCHART INCOME.







Achieves System Accuracies of Better Than 1%

ASCOP Pulse Width Ground Station configures, pictured

All ABCOP resignment is dosumed for dependable your

Second are not only as ready

APPLIED SCIENCE CORP. OF PRINCETON F. O. See 65, Principal N. J. + Patrolina 2 4161

Send Principle of the Advance of Fig.

Broked growing separation and beautiful street.

des a recentra despenda - Alexandra A compa Panamismo Philosophia - 64-25 American

PROVIDES FOR:

@ Advance Entlan-Criticaton, ming to- Creffmun Antonolis Compassates for spoten son, sade foder shanger Erot Topa Endocat Ocean Records for

Riversia & Speciment Company and Section of Speciment of Speciment of Original Speciment

e PATRICK

. Re-entry, when the ensule planner Down to St. Least the mage was

St flaces, about 1,500 on from the

stetches ever 5,000 ms. Col. Chice.

. Mid-counce, during which the comincounts to the second on the largete

probably under \$50 miles

for Rendem Vibration Testing: CALIDYNE'S NEW











SUB Minax

. PATRICK look to AMPHENOL for RF Connector Tracking Farther **PROGRESS**

Assertion's Subertrea have provided receptuals, 27-800 suble terresystem, 27-28 Subsyran to RNC schooler Sebminox BV connectors

Astronous new edds modified of RT connectors to its large.

voltage rating is \$000 volus.



trace, so some carry one missile will







































· PATRICK

survives can be located swite eventuch

Repar Safety

officer witched the monte rise against titude from cropp more moter

which are cated must be proficated ou doubters from versely Lough us-

Presiding a flight table which ear he continuously eriested in the defined space vector. conguter. Operating presently Wife for brechare



THREE-AXIS TRICETT SIMULATOR





moving or semonily located objects A 4" ARNES ENGINEERING COMPANY

Jeret Opprators

Improved Moustonness

Meatific Test Preserve

PATRICK

Sends, his proved officer and host

DAY THREE BATTERS

This is british the service hydroutic actuating cylinder, contracted by the contract of the same property of the contract of t MOST COLORED MAN AND MANY VALUE ADDRESS. POTET THE BY THEFT WHEE CHAPMED COLLEGES America's inter continental Builtate Massie program is designed primaris to preserve stance. federalate is capable of angionering and federalang any

FOR PEACE. OR VICTORY!

SA 2000 E. Prescul Rabase



First there's the 120 Whowound TRIMBET, with features essention to all other SQUID-IS TEMPORE It's a 25 turn potentionaler, easily advanted.

mhar Wheeling conditions. All parts was convenien constant. Force unit is inspected. 195%.

New, to give designers proper largedy, ROURNS has developed and in



What for Standard we had BOURNS DEWINE And DOURNS LRBORATORIES General Offices 6135 Mecenin Ave , Restricts Cold. the Deputies for Rouge and Support The Control's formal server to the

About 150 officers and substant as

Before a USAF muscle is released for resolution the 6510th law may him mores. The a sweeth so

Dr. Col. Cost Advance 65500 arrelates recoles manifest adultum

To serve America Topp-HRB has over 160 scientists & engineers (including 30 PhD's, 60 MS's, 73 BS's)





built by Kiddel

FOR TIX YARIA KAME has been regard in encoded seatings open user reserved requirements which now residuals in the developpers and reserved regarders which the residual is the developsophism for garded number and plated supersonace afterest. Takey, production models are being numerationated while some legal speed in the reserved of the reserved reserved and the legal speed further action in supply similarly seguitated power for shorter, before all of other proteins. They are reduced by the core be made our occurrent flow. This presents authorize the core be made our occurrent flow. This presents authorize badden wade detained in options and deep.

presents system and components for ascerdt, Kulde has a laand expension stoll of guidante engineers estimately engaged stationy and emergency power supply projects.

suchary and emergency power supply projects.

Tell us of your numbers power requirements. Riddle in peep to design and manufacture operationed which well meet

Walter Kidde & Campony, Inc., 818 Main 31., Belleville 9, N. J. & Kidde

• PATRICI

Downrange Life Is Work and Hobbies

Cound Behaves falent. BWI-A doesn scientific composits on an enterthind much the deviationary intrinse of the Ast Faces Munith Test Center. On them well as each of attention leavants, complayer of Pers Accepta-World Arrowin said the Audo Corpora fam at America, port operators of the

leavant, companies or the street, which compare the all America, perit operations of the street, and a street, and the complex optical and relative to the complex optical and relative to the street, greater as the control period to the gather or account the regreat the proofs down a marsh flow.

noticy ground steleois that global state occasil the current terr period during a missile flight. This island is a typical stream You hard on an atomic hashed out of comlete, by the Christian Engineers and data is not handled to the comlete in the complex of the comlete is not handled to the comlete in the complex of the composed stream of a practical gath of with a faightful in where bond 6s the American and Bathel Same.

hands the buildings, the 140 post shout the droses quarth. To make my post and such makens, as through the outset which makes the laked porch of the most always the firey and our infragitemen of lest night.

A torr of the boar taken for excess re-design of no stay to be looked of the looking and talk with the race who as write in this love. The local talk of the love taken as lead out with a long consideraged shang one yield. Death towns long of the consider, with a bath between not large consideraged in the consideration of the local talk of the love taken as the local talk of the love taken as the local talk of the local tal

In one room nor the british recap and pyracided bears of a list figures the count with an infinished oil deteior that one count of the nort room, we plaine and other madely brighten of that.

Work and doop out cut, bribbins and abbletes that about some op to blick at one of three downering nithma. But that is, all downershot The wal, one

second of this is doesn assisted programs. Steep in these, new-here, and freely as manufally good Coffee is not may 34 been in they fore limited—with the disclosed assistantially on the third standards and the the franking rites after house. Find Austracia's commensiony men the rites had produce 65% ments such day from an effort forther limited.

followed Hebbins

There is a delardine of data, and a fixing clab-which at one time had five places on a beammade strep-stody of

APACION WEEK, August 6, 1906

Here's ALL-ANGL Reliability
is Manimum Space
for JETS and
MISSILES
Coloration and the second second

The entitled gyro of North American Ariestian's F-100 Soper Sohre most give reliable leafcetion through every fight estimate—or the pilet wen't know which way is up.

That's why ALL-ANGL Barry Moreti are chosen to reject the deleter sentime relays in the serviced searching.

for the wild increased. Chos-before operators in all intrades demands the cereas, notices of whreshes — sameed by ALL-ANCE Burry Moores.

This of the same one with by 2 Short inside in public long as the same of the control of the same of the sam

When your problem is proceeding through all dight serrodin, you amove in ALL-NOE, Serry Messon. Weight for Disa Short sideful going detailed autorassian. For recommendations on specific problem, all your actives Rerry fields Representative.

[Brown Messon Biolisha, in Bulland, Colleges, will after evaluation.]



fring cith-which if one time had fine places on a household of the love expenity and machine shops from the household of the love expenity and machine shops.

715 FLEASANT STREET, WAITEROWN 72, MASSACHUSETTS





· PATRICK

een when they been there us, buy cross and meantening the work of the Miller rule farmerly was a close tallet There is not much to spend the Managing the Base

ing off personnel, advantaging the land for racition. The most is not Auviliany Power Scroll Nozzle Assembly



USC Considerate showing loads

Bar resemble to Cept Arrive C.

White teday for our (Systemted facilities carelow McGREGOR MANUFACTURING CORP. 2975 EAST MAPLE ROAD . BIRMINGHAM, MICHIGAN DAMAGE in transport or storage

By Honoid - regimeered and effer shingers metalears.

LUDWIG HONOLD Mis. Company

CHESTER PIKE





Holloman Evaluates Missile Systems

By Irwing Stone
Holloman AFR, N. M.—A buttery
of new test inclinics mened at necting coacting development requirements of manufact scheduled for the
Aur Fonce around in being sequent by
AREA's Holloman Are Development.

Center.

These new facilities will give Hollamen a key sole in missile development

• A closed-shap in flight performers

compain and used intended in correction requires to a represent in gaste from a requirement of the control of t

Offer landline one under stody How HADC Helps Industry Despit the propertied growth as accusabilities of familiage which recompose it. Halloman will recome on independent dischapes a side. The centre of continue to on redwarfs for design and labor of the properties of the continue of

cone in neapeneted developer at side. The centre will continue to side. The centre will continue to all the smaller stong in facilities on all the smaller stong in facilities and related and continue to the endoughted at each state of the endoughted at each smaller related to the endoughted continue to the endoughted



CAPTIVE OR-19 TARGET BRONE ON \$400-PT TRACK





HOLLOMAN

Dest P.W. Now LOGIETICS OFFICE 4540 N KR POLICE SE

SSEC IN SUPPLY SS



NEW USCM FLANT

EXPANDS CHEMICAL MILLING GAPACITY

HER USCM special or glein in Section of the control of the c



UNITED STATES CHEMICAL MILLING CORPORATION
1700 Reserves Avenue, Mashatter Brick 1, Children



DIAGONAL PRISONEL AND Eller as these good and to the londs here
have for the filter that a a loved Seer of the filter than a loved showed on the filter than a loved seer of the filter than a loved
on a filter than a loved
seer of the filter than a loved
se



AMERICA PERFORMANCE AMALTES

AVAILABLE AMALTES

AVA



AETCO
for complete
testing of









speeds security... with the help of Burroughs computation

friely, SAGE days this employ rodor and electronic

INTERESTED NUMBEROUSES CONFORKTION DEFENSE FACILITIES INSLUTE:

Burroughs

Looking to Patric augmenter, Everangle laviles legities films qualified engineers.

 HOLLOMAN reat character the costs and true-

Speeds Up to Mach 4

Convenient of billions and other module complete on ill moveke. Con-

yeard in holters. Crack page will be

Static Test Stends

the ICBM and IRBM, conclusion

AVIATION WEIK Asset 6, 1996



METLFILM

TIC, bride on the deschaped of are, designs for ardealed and sub-ary application, incorporated the most sensed features of a trianger potential more than the modern design of the dominative EPT. All are designed designs or detail. First, preserve, and stability—remaind observed in all frames patentings for matter in all the earl MET Supherfolic analysis for exercise of edging distribution of the stability of the edge of th

blancing stand volume, narrods, or residence

Complex medicators for the BFT Medida Prosperator conditions require "See us or frosth 224-226 instruments Are. or 1 8.5."





· ACCOUNTS THESE a EDCRESSICE AND - SECRETARY BOCKETS · EXPLOSIVE ORDINANCE · ENGERANTER PROPERTIES QUALITY CONTROL FOR ROCKET ENGINE RELIABILITY Today, as never before, racket power is a donation entition requirement. Aerpint

The results are unique in the rocket propulsion field. Aereset products in field use

Gerojet-General COMPORATION



. HOLLOMAN Decements in trolling heals temperawill be exetrelled to see out translate.

· Studying postule structures under both . Daplicating thermal effects of receiver shout 40 by 100 ft. will arroby and follow the sum to reflect six over to a

Research by Relleas Another plane of the discountr's

will garn a 150-th marked to 117-000 before his preschate as second

ides is comed out by PANDC's Describ-

by Gol L. Beker Ment of these sainnotes the recode's subscrability to constructions included and wearts



has a formed motto, but its mission could be told in two weeks I use the exclaimer deliberately, for ARDC's goal engage be stated in a matter-of-fact manner. The driving segrency of its assesion rated be emphasized as strongly as possible. Nee is the year field of the Command's recognishility difficult to designate, One wood suffices: "Omlite!" For too many years quality was subservient to quantity, with

on improper balance between research and development on one hand and production on the other. Lt. Gen. Donald L. Patt. Dennty Chief of Staff for Development, former ARDC communice, and one of the foremost proponents of special couplastic on research and development years. non-spiced the need apprincible I would be the last to organ first

one consists or consists to more inhave both. The Air Perce a broad or quality fitter quantity. is the late 1540's, General Putt and a group of fur-subset officers certified Combinder Research Center, and HADC's Acro Medical Field Labour-

A confluence of thinking, as-taking support by the Scientific Manney Based, you the Manney strength for recent and decolor-ness redependence, and 4RDC was formally coubleded to a reporter major remembed in Journey 22, 1662.

and a running of directors, on pre-grams denotely ruleded to quality and the good. "Keep About." for an allow progress and this nation's forms, the Wiss. R. Whetsher Co., Ltd., pays urbate to the Congruent and confines to play - a profession and technology in reading man and recknology in reading man are neglect frequency or profession of age neglect frequency or profession of age of the profession of the profess

and development funds is used to spinuse research and development ABBC. The quest for new hards provide maximum effecturers of minimum cost; and maintenance of From his hendquaren za Baltzmore.
Le Gas Thomas's Forest directs their mount operations through the gation centers and each center has suchasing la present research felling within 25

The year balls of USAF research

This the ever-servicing Art Research and Development Commercia, so far-fined interdistria with industry and Its programs encourage and ordered scherements and appealable requires that ever the years will not only help lendenship, but condenses to the well fare of every Agustica. As a recall but analysis shareholder



HOLLOMAN

. Propublish services stores and lura-· Photographic services formalies a dec

Teles Sidewinder Bencol

Wash home done for other ARDC

NO 28 drope, a madded version of

AMERICAN MACHINE & FOUNDRY COMPANY TURBO DIVISION

PACEAGED EXERGY Tube Division is currently medicales indiscretions.

RESERVE AND REVENUES Beautiful and depleasant sources are

TERRET WHERE Asial Say & Municipal & Days & Toury

Tatho Divides accessing person epitems are respect Aghinolphi arm



AME TURBO DIVISION 19145 GLENOARS BLVD organization of the contract could be reported to the contract could be contracted to the contracted t Florer Diray 51521

PACOIMA, CALIFORNIA CRE for Fermale Dd No. Notable Achievements at . 101



New Techniques for Component Reliability

RADIO GUIDANCE HIDIONSHY.

Wide-band, complex waveshape valuation testing using electromorphetic shalars driven by large sudia suphiliars, is a valuable new tool for evaluating model result components larget information can be in finish

Engineers and constants are weeking at JPL is nearly all of the shydeal approach. Here they are unposted not only by outstanding The control process of a located have of landscreenil in operands, active development effort, and strong test and digits poggram has annel the Lab a otto of active remains.

DUCCTBO INTORNALICAL INSTRUMENTATION PADAGING









...newest Vacuum Melted allov in the high-temperature field!

Harr's a new "super offer" for on tacket compothe I200°F to 1900°F range. For extends, at 1600°F

Drawn is now specimen theory 500 to ten without

meey hangber of industry.

Our technical graff is sendy to help you on your high treservoure mobbers. On short eatine we can testand) a simple of your alloy for further evaluation. Let us tell you more shoot our facilities. Stad for Sketned Vicinia Miles Scotters

· Greater yield strength . Gresser impact restrance Greater contro secondarioris

Unica one offer you properties

. High impersion correspondings

· Pricing chemical control

. Longer streamentage ble

. Invested tradle suspents

a Decembed describing



o as ideal sets for more testing. The Location Ideal for Testina

HADC's Dark Rele

progress. The project officer works

And this colstom/rip is sound, whether the electrone sys-AVION O.C. C. INDUSTRIES

participation in high speed sled rest DIVISION

advances the cause of

HIGH RELIABILITY through SIMPLIFIED DESIGN



The fewer the number of components required for any electhrough the applicances of this deeps concept. The relation-

Sand for Arber's "Shift" foliate as year company's beneficial.

UTIGA DROP FORSE AND TOOL CORPORATION, UTICA 4, NEW YORK



a high a 1900 the moved to probe a high a 1900 the most compared to a community of the comm



been shock seen and belong skill recell to another the deepers at high performance seems to deeper at high performance seems to color on deverge seems to see the seems of the seems performance seems to color on the seems force:

One is the Seems to the seems at Seems in Seems to seem peacest seems to seem at the seems peacest seems to seem at the seems peacest seems to seem at the seems peacest seems at the seems the seems at the seems consult peacest seems the seems at the seems consult peacest seems the seems to see the seems consult peacest seems the seems to seem the seems the se

Physical Forces Vs. Humans

Why does E-1 get the nod?

















Engineering third effices in major U.S. and Counties cities.

how DAVIES puts magnetic tape to work



... in an automatic recorder, reproducer ...

you push the button

With sutomotion mitting more twee. Which is note no descripted stops, and rewinds associationly

and slow read-out . . . and all without human streetler. It can also be restarting, recording on the next

what's in a burn

noving . . . in a plane, wormome ... and in a missile, downings expersoye! Vibration, as a result, has been subjected to considerable be installed in resselps) . . . or at the other end of a telemeter link on the ground, somehow got the a 100 best accomplished in the an-

matic Wave Analyzer Fod with a ducine equipment, analyzer . . .



After delaying the tremerature for, back they go to a much re-

where were you whee? A thorough analysis of process the chance of future factores. Three ately preceding an abnormal condation. For the job of closure the in the offine, we propose our Casunity Recorder, which works like loop of marnetic tape, with loop

any adequate idea of the seemmagnetic tape systems in data we'd rether decess your data ac-

LARORATORIES, INCORPORATED

* OPPORTUNITY AT

GRUMMAN FOR OUTSTANDING

EXPERIENCED ENGINEERS

Aerodynamicity

Compension framework plan and Mr. A. T. William

GRUMMAN AIRCRAFT

ENGINEERING CORPORATION Bellevon + Sono Wood + Pales Tech



TALCO is the bester or the field to this sert earliest it exemptly your product development. The Tales hallotte power for your armayons seeing or one operation products are to express believen and auragine for

Apply TALCO mescal, daughpment, application originaring and manufacturing stickly to your halfance and correlagent/harind problems for sale, mass selfance. Mosts, with or plants today.





MODRY of reduct in South position it imposed belonds Region Bloc Str. Edwards Rocket Base to Test Captive Ballistic Powerplants

Edwards AFB, Calif -- The year of high threat bigod peopelized socket regimes is being board more frequently at the Air Force Pfirst Test Conter To facilitate testing these sophisticated worpon testoms, some \$35 mile where first sub-victors and corresponds and later complete ICBAb and

IRBOIs will underso quitive flight bests.

Neveus, Atlan and Thor

General Dynamics Corp. and Doreits. . Our van large test stead creoble of the process of beaut received up to arror . Another musile assembly building late a particular possible system. Thes Additional waveleases and sub-storm match the more alumbrar short of . A Bookl power plant to earnly the | project, many array earner or

experimental work requiring high



AVERTION WHISE Associ 6, 1996.



. ROCKET BASE

Sixteen France Weekly

recrues it dome weeks

Philosophy behind Rocket Bior is · Contractor and furtiers will work chiefs well steen shift to research and money for further to tox customs at before me lagarhear fellow's at slove · Reliability testing, in which compo-

Complete High Speed Laboratory...

WETTE for more detailed reformation on WOLLENSAK

The World's Leading FASTAIR

built to withstand extremely both acceptance of guaded rescales It is small and compact, meeting

FASTAX... photographic laboratory

Top Picture Quality Combined With Orestest Speed Renns FAITAX deserves nor most weetable become there's Frien 150 to 16:000 partners per second . because

High Spazel Cina Decillographic Cameras . . . 400 Ft. Capacity





SYSTEMS PLANNING

the basic approach to missile development Assesse Director of Research and S E. V. Stenans discous resupon require continental United States

The concept of systems planning his many degrees of marporation and applicables. At Leebbert Moode Systems. Driving it is a primary field of orderers that is emphasized.

An applied at Lockbood, at begins with open bissal requirements authorise every plane of the development of a complete support through politicismy dough. Coordinated centric effort is required serior, societies and engineers in virtually all fields. A member of highly specificate are overview with speed to those possessing lases interest in system plantage.

Ledled MISSILE SYSTEMS DIVISION

research and experiency study

LOCKHEED AIRCRAFT CORPORATION

WHEELS AR IMPORTANT



there have been some improved models made lately by Detroit Controls Corporation CONTROL ENGINEERING UNIT



360 PROVIDENCE HIGHWAY, NO 7-3320 DEVELOPERS & MANUFACTURERS OF GYROS GYRO FLIGHT STABILIZERS NAVIGATION & STABILIZATION SYSTEMS

NEW THIOKOL ROCKET MOTOR PLANT TO BE BUILT IN NORTHERN UTAH

12,000-acre plant site acquired for rocket motor

development center

Near the reeth since of Uish's Grant
Soit Lide a new Thodas I plant will
soon non. This issued expression by
the Thodas Chemical Cooperation
will long to four the total survive
of Thisded plants developed as havely
to the development and production

Line City, the new are in centrally knotted with report to tall maper waster, either it is cure-resert to both call and air downworlden, and sufficiently substant to permit the testing of the largest redefined, and the service the growing resource conduction of the control of

Engineers and Chemists - become a member of Thinbels on bet diverlige need and mentalization and the enterdance impairies (rost excellential expenses, chemo al exponers and chemistic schemistics as the realization of the enterpolities of the realization of the enterpolities and the enterpolities and if you needed him more effections about

chemian cultivated in the roill you needd lân mare oforms to Thinkel Chemical Corporate your humans interfered for an "Your Robber to Societi"—the Bishal, on a probatic rabber accordinal meater

> HORRICAL CORPORA HORRI CLINTON AVINU JERTON 7, N.E.

Thiokol.

Rocket Divisions now at Elector, Maryland • Huntsville, Alabama • Habshall, Texas

NUCLEAR SYSTEMS



Kinteed Builds Nuclear Wespaas Delivery Capability Nuclear-Paward Bamber is Marring Nancer to Reality First USAF Reactor Due to Operate Within Two Yours Capability XB-24H Charles Due First Although Reactor

148





PARSONS

MASTER PLANNING DESIGN CRITERIA COMPLETE INSTRUMENTATION CONSTRUCTION

THE RALPH M. PARSONS COMPANY





Kirtland Gives USAF Nuclear Delivery

in the active USAF inventory today has the capability of delivering one or

AFSWC Organization

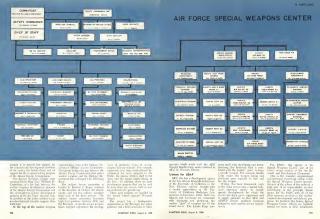
Bris. Ocs. William Heats Controbury. Acedemy, 1994 has held redor. equatest operations divisites . .

ren of iteams neapons.

• Development Directorate headed by Col John T. Deshuek, whose many









RESEARCH and DEVELOPMENT proved by Rheem with current projects for the military

nities at Rheem, For further information contact.

M MANUFACTURING COMPANY GOVERNMENT PRODUCTS DIVISION RESTAUCH & OFVELOPMENT LABORATORIES Other states and adversion course, Ourse was rough ourse requestives, in a securities, at a securities and a surrounding Nuclear Trends

 Atmosc weapons have canneded them Nuclear regions are becorring emple to receive, hardle, star, and *Increased variety of warpons and their its, Special Weigness Center of equipment required to the Special

Special Weapons Center Mission The effect states of the Special Worsen Coster at Kelled AFE in while the recomplishes of the United States Lie Perce of stomic wronwa, colone

To yourse support as repaired for certain relay record wescome.

· Stades and recremendations on fo-

. Mesone, evaluate and interpret com-

INCIDENT IN HIGHER EXCHANGE INCIDENT TO A STORE OF THE ORDER OF A CONCENTRAL COURTS OF THE ORDER OF THE ORDER



Research Directorate

THE RC OF BUILDINGS WASH Moons, 500-A nove on layer of 18-000

FOR WHICH APPLICATION These feet dependably proved pursues

uniday in completely illustrated. LIBRASCOPE K-V PLOTTED HIGHEST ACCURACY FOR GRAPHIC DATA HANDLING



For dark or rack mounting







LIBRARCOPE INCORPORATED - SOS MESTERN AVENUE - GLENDALE, CALIFORNIA

* Description of reco-A Provide focal point of contact with

over USAF remoned averaged to AEC

· Be-Piesco Demons headed by Cal · Effects Division headed by Lt. Col. Market Marre · Herese Factors Divises handed by . Wedends Dirace banked by Lt.

Men ob of Analysis Direct of by USAF skitch makes The dos

(LAR) delivery technique for stories

Nucleus Befores Systems Don for freen the breest can a

SOW ALTITUDE EQUIENCE TECHNIQUE Release Post





CARTERDS MART OF BUILD

High-Altitude Problems



Human Galece Fres the mixture text designs to design with the after detectable days as





BREAKING THROUGH THE HEAT BARRIER

Heat from Diction campet be eliminated, but best from electronic

By helpost to poles this difficult problem, effices terrelaters officiant operation of the latest subsizer military equipment.

HAVTHEON MANUFACTURING COMPANY



deviced. "Her" areast are washed contacts with scientists resolved as was

Another resonablets of the dev-

AYLKTION WEEK, Angest 6, 1950



3 DIMENSIONAL FUNCTION GENERATION

A THE PHOSIACS

Other Streets Decessor presents



SCOUNTS & DESCRIPTION AND ASSESSMENT

Roster of Du Pont

MISSILE and HIGH-SPEED AIRCRAFT SPECIALTIES

DU PONT ELECTRIC SQUIRS. (substances appale are used

All Do Post Electric Spirits are of the atmost reliability

wide extremes of provery and properature recognized to DU PONT ELECTRIC DETONATORS. Instantormus and

DIS BONT MIGH. TEMPERATURE RIVETS Do. Door Los

use to HOUT. All Dis Post Assertf Breets are not from the DU PONT "FRIMACDED" MS DELAY CONNECTORS.

Newsorre & Co. (Bar.), Explosives Dept., Wilmington 96, Del.

DU PONT MISSILE AND AIRCRAFT SPECIALTIES



AVIATION WEEK Award 6, 1956

KIRTI AND

· Gode AEC worson doing The

Responsibility for developing arming E MDC season union servet

*Decision responses for nuclear dling eye has been secretal. Early · Devise heading equipment by my

Ou Pent Alneste Aloete and convertly being until in new alors high

DUPONT AIRCRAFT RIVETS HELP SOLVE HIGH-SPEED TEMPERATURE PROBLEMS

OWNERS SUBSECTION SASTEMED PATABLE STRENGTH UP TO 1400FF

These strets also speed and simplify manufacturing processes. Aut place givets in drilled holes and expend them. Sheets are Also available for above-average temperature applications

DU PONT AIRCRAFT RIVETS

A Product of Dr. Park Passauch SATTER THIRDS POR CAPTAR SIVERO . . . THROUGH CHRANIES



Honeywell Aero manufactures the only null balancing capacitance system for measuring liquid oxygen. It provides the pilot with extremely accurate oxygen supply readings, and signals him when the supply reaches the danger point, The system's sensor is sealed inside the container. A separate indicator with transistorized nower unit is available (no. 1 above) as well as a single package transistorized unit (no. 2). This system demonstrates Honeywell's leadership in capacitance measurement systems.

. Develop uncertains and selesse up. . Develop special bouds and reclets micross or extrem. For revenue years • 6926h Sanadons in the observe alone

. Co-exchants USAF development of bombon and it coursed with the *Deceles swelve practice bould but converted concorned with pro-

houle is AEC tob siger the end of

ANATION WITE Argest 6, 1996

The 4619ds Test Group country a real other rescellancous procedures so first of 55 awards velocal at \$50 maj. Inted to confere weapons toware.

· KIRTLAND

even by Wright Air Districtory of Con. # #875th Sandren or a concepte test . 4929th Squadion is a development

Hucley Drags

*Co-schools development of recker Paris. The 417th Green deep zer-· Senarat solve ARDC coston and of performant tran-

Design and

Development Engineers

Marriage count descending these

PLIGHT CONTROL SYSTEMS

Consider these advantages

Write to us

Honeywell

pneumatic systems now offers

two additional high capacity compressor packages designed specifically for

fuel air starter systems.

The Cornelius Company has designed two new "mackaged" pneumatic systems. The new Models ScD1506 /10 CEM: and ScD1660 /T CEM: 3000 PSI packages provide complete air supply systems up

to the air reservoir.

Save settleht and more web Complex Constract!

AC MODOS TANDEM DEINE

For details about the two new Cornellus compressor "packages" write for complete engineering data.

PIONEERS IN THE DEVELOPMENT OF AIRCRAFT PNEUMATIC SYSTEMS

Nuclear Posters

WS-125A Will Measure Range in Days

Ry Doyal A. Andretan Wespon System Number 125A is a homber with unsensuic dash performers, powered by the temple enemy that has described two efficivaporteed a fleet and availanced as adapt It is the first of a lone line of sixcust whose environ will be turned by

the heat from nuclear ferious. The homber, with more measured in does instead of males, will be ideaed by only warmen sixcost, legisles corners · Floriel Mc data for party components. parts country and the vehicles that will . Heat enthurses notice tests. The

Two Presences Under Way

Sub-Systems Aircody Tested

The lat of tremble recomplishments is a formidable one Progress to date so . A new from the Flight Test Center · Kenneledge of the behavior of corner-

Meny Centers Invelved

or been other or both night be. Comment, gospapherily spend all Scientific in the Cowner XB 5071, a studen received by the Office of Scientific and of the Air Force in realized most M Conbridge and Rome, organics

and Many of its substitutes and con-

ARDC's Fortness?

WK-1954

Motical Advisory Group mode up of The Decineting Red Thread

WS-125A

Inside the Engine

. Highly division short-line, where the

charts and composites, the penals up to the resetter on continuous date.

Balance of Life

stock-ment power by the manner. But the exce-bank to be reads from that

One-Shot Cores

To the

EMGINEER of blab

abilley

to an appending the making full throat

CORPORATION APCROOMS

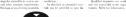
ANSATION WEEK, Among 6, 5536

AAD OURSON NAV ornearon I maped

Two unit pressure control FOR ALL SITES OF AURCRAFT CARDING

Simple, proved AiResearch pneumatic system aperates independently...requires no outside power

Afficient cable pressur control



THE CONTRACTOR CORPORATION

AiResearch Manufacturing Divisions





THE SHAPE OF THINGS

Firestone THE A PLANTER COMPANY AMERIATT DIVISION . LOS ANDELES 64, CALIFORNIA

WS-125A

SUS MINIATURES Now you can get sub-ministers "key-locking" inserts

Maybennee and sepan of majors

AVIATION WEEK, Asset & PISS

whenhare . . . provide movement holding power . . . nove



SAVE SPACE was KELOX'

The Kelen system of threaded and temped inserts offers the



"kew-locking" secressially withstands application of for external thread sizes from 0 to 3 inches. Made of





ange bide commune . . . requires the special





up to 9600 million of fact, the new Super Constellation at quinteen in presenter colors Lockheed launches 3 new aircraft!

twist or out. Assemblies can be made to show Macobote sporeft predacts by leading mora-

secreft menafectners, sichus, sed military





Kangaba, Waccesin

AYSATION WITH Asset 6 1956

First USAF Reactor Due in Two Years

Weeks Petterson, AFR, Ohio, The Air Force's first his anchor reactor. the Dissertance hand of the Nuclear Engineering Test Facility at Witcht A motor tak for NETE will be technical test seament for the marketnamedial WS-1254 secreta system. Furnishing from the samples of motors. als to considerely operational make systems will be texted. Availability of this was reserve and its test areas will others creatly the

A blumber building marks will Five Test Arees Basic broad of the reactor building Plans for Steffins

. Sweeness pool," a last vater con-* A thereof column, which provides

. A "subbit" for testing meterials des-

These test sustalistness are led out

With the tests and enabrate comprints, the introduced deposit and up or next AN FORCE matter will give test supposit to make present WS-125A.

Service George er within the Accompton Benerols

NETF is one of the first above to





XB-36H Tests First Airborne Reactor



DNLARGED was of modeled R-50 posture shallow. Offered adultion mades describe tall

Pt Worth, Tex.-The first sixboost Carrair XB-36H, modified B-36 ar-

opcuted by Cowner Division of the company's reclear peopelful weanon notices. The ASTR is a low-

Fiving the XS-36H The enc resembles the stopped

copolities of a whale spectrum of magetted nealest restrumentation had Checked to your specification ... Shipped to your schedule



This but stand theeks estuding exceeding under simpleted operating canditions. Ex-Cell-O produces actuators and assenblies in volume for jet planes and

publish pissies. You can rely on Ex-Cell-O to havele your precision production and assembly work on arbeidule. In lead you are assure-

once required to solve your individual problems. For information or a quoto-See, write, phose or wire the Previous Products Division of Ex-Cell-O.

Same of the riche new being presed by Du Call C

MANUACTURES OF PROCESS AND NO. 1003 - CRIMING

L. C. Brandris, confert, S. M. Andrich, Suche test engineer, L.D. McEschow, Sphit engineer, . Book practices are part of the oxcendi-



United Aircraft Products uses BISHOP TUBING for Metallic O-RINGS*

Enrouse there is earthrop parts like stainings steel Accords Products, Inc. safests BISHOP quality tale February from Filling 30221 staining shed tubtwo for machined surfaces to form a pressure quelity tubung used in today's high-speed circraft. You too, can depend on quality performance

and ARCPATT and drown

(.003" to .083" Well! (as to .633" Q.D.) Based, Flord, Hilled, Stated,

Conden on Decumptor Soud us your smallcellers for aromet muntetlans.

STAINLESS STEEL PRODUCTS DIVISION

I. BISHOP & CO. ?----- *---

AIRCRAFT & PROPULSION



Flight Test Cerner Mokes or Breeks Air Force Planes Test Pilots Evaluate New Systems, Explore Frontiers USAF Centractors Keep Arnold's Test Tunnels Filled



F-HOLA all-veather intercenter. Apolication of the AREA RULE nive the F-102A as hour-A result of extensive desire, testing and re-designing, the delet-wine F-102A is now being produced in generally for the USAF, Air Defense Command -evidence neuro of Constants





ARDC Takes Over

P-104 in Texts of APPTO

Edwards Makes or Breaks USAF Planes By Richard Success Mind to 1945 notices a Northcon VII 49

Educate AFR, Culti-The Air Force Flight Test Center in the "make

or break" studion for USAF's sirecuft. Complete confustion of a new weapon system here determines clearly how well rearestacturary, autocatactura and other Air Russech and Development Contex have done they jobs At Edwards all parts of a new costem come morether for the first time. to be checked out as an outily rather than as separate units by an imposing

I Strate Motorer morals over 100, on a hour or the week sale of the lake

YP-39A Tested at Regers

North Box, section where fort terms . Where however for here necessar-

ensolubited ARDC rose rate bone





8-45A TORNADO IS TISTING FOR JIE INCOMES

dough weather and there is a more to or

Best of AFFTC is the Discounts tile, oscillates the whole discounts strates, storget to the sea 15,000 Bottle, and Technical Eschines Day Office lended by D. Col. Babb May

+6538th Air Base Green, commanded *Rocket Fature Test Laboratory.

6511th Test Group (Perschatz) which



*Plene I-Contractic compliance, or





POWEFFLANT REARCH TEST ENGINE IN SHAWASTES CIES. LEFT PICTURE SHOWS PRONT, ESSHT SHOWS REAR escentially, will if the lie along 20 less restrictes associates the entire terms of line, an archite appealing of the

· Place Haleful performance our

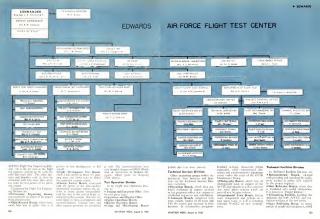
. Place IV-Performance and stability. There to un applicant for appropriately

Place V—A1 sugface testing, doze at
 Place VII—Operational withhills, as-

Test Engineering Division



KNATION WITE Asset 6, 1955





THE LOCKHEED F-104A is described by its maker as the world's fastest combat sirplane. Such incredible supersome speed calls for control systems that must be reliable beyond question, under every conceivable condition.

Rivid specifications for the F-104A's prototype, the XF-104. were entrosted to EEMCO, specialist in the degree and manufacture of custom-built motors and actuators. Collaborating with the engineering division of Lockheed, EEMCO designed and developed six actuator systems as vital components of the superseme XP-104.

ERMCO is now manufacturing actuator avatems in quantity for the F-104A. FEMCO-designed motors and actuators are on the majority of the latest type military jet aircraft and missiles you being delivered to or developed for the U.S. Air. From They are also being used in industrial ambigutions. where high quality and precise performance are vital.

to the eldest as the auton. It was best lives, but some time ann. Olipse be-

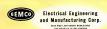


500,000 ft though combine of continues contractor or the treel. In other case, the treel horsels 2 and naturating it for 2 sec. A series colocic because part of the track in

• FDWARDS

The Powertlest Boards with Cost

ARCRAFT PARTS BUT VISED CAR LOT





52 soften eventures. Also available one accomplish their part of furth test

Technical Director Flight Test Brector





HARTWELL

AVLKTION WEEK, Assett 6, 1996



SCHULZ RECIGNE TESTS

BUILDS



25141 and ML-C-25142. New and Airfrone Manufacturers

SCHULZ

TOOL AND MEG. CO. 425 SOUTH PINE STREET SAN GARRIEL, CALIFORNIA

Depositions name a PERSON, have appreciate presented, \$25078, NEW YORK

Datatape Systems ...the total answer to flight-test bottlenecks







* FDWARDS

Planeer.



PSONEERING is our business

NEW BENDIX TURN AND SLIP INDICATOR FOR TILTED PANELS

If then I one them con-tent about the re-For envision, the introduction of sharing







Filter Tests Show Important Savings

1 200 hour flight tools of Window filters on R-\$360. servines of handreds of dollars per entropy for the placement parts and labor. Distinct the tests of 901-46 T S O is placed belief

in a fitten-preferred engine. Because the Wreslow CP+ full-flow filter micked up the rootal particles. cost of sensing was poly \$315.39-the average cost for piston fribure on eight other engines was \$1,955 per engine.

tion Department, Worslow Engineering Company, 4000 Hollis Street, Oakland S. California.

CP* (Controlled Prossure) is fully protected by netents and trademarks.

AV-MAT しゅうしょういうしょう はしきにきごう

Project Datum

AVIATION WEEK Assur 6, 1996



NOW IN PRODUCTION

SHIP AND KIND

Call on Swamers, the Igrocal source seest of the Mississippe



CANADIAN SISTEMSTON PARKEY ARCHIT OF CHARA. 170 - 1080HD

Seeled Culture Sydney - Seen Doctory Sedons - Stanistal France - Stani



-1

Janitrol Dubl-Lock couplings

Januard's nevent has of Sphownight Dabl-Lock's couplings (charp and fungs) previde sums andry for externed credible Bendeis dect contections on persiscent. If both unliables of sink, Debl-Lock's coupling mention the and . positively prevent coupling thised Here or generate, when both are in Fighanch, backed tong automizinally owns into persisten and looks the sharp tight, even

lock near-upply them's pressure.

Both Jammer's Dubb Looks and Sundard
hase of couplings same up as 40% in weight,
couple and uncouple with case as often as
necessary, require no compounds or sanifre;
desires because faring soil in motical-oriental.
They websteed high temperatures, high prosusers, serves, whether, membranesel, and

Call your nearest Janterel impresentance of write direct Janters Auronal: Automotive Dovision, Surface Combustion Corporation, Columbia 16, Olso . . District Engineering Offices, Worksegon, D. C., Philadalphia, Columbia, Nort

Worth, Hollywood,

*Produced of factor Conductor Connection
Connection of States and Sciences Produced Connections
Connection of States and Sciences Produced Connections
Connection of States and Connection Produced Connections
Connection of Connection Connection Connection Connection
Connection Connection Connection
Connection Connection Connection
Connection Connection Connection
Connection Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
Connection
C



* FDWARDS

Les, 14-bested magnetic tap principal control of the me souley force, which still gase congreton is "updated, and the control of the control

Usin at ANTIC which self uprice price Presc Direct in your man of "Fight Direct in your man of "Fight Direct in your man of "Fight Direct in your man of the price of the pric

**Admini Commission of the Administration of the Administration of the Information and other Information Supervision suggestion suggestion suggestion suggestion suggestion suggestion suggested to Proceedings of Proceedings of Proceedings of Proceedings and Supervision of the American Supervision of the American Supervision of Proceedings of the American Supervision of the Administration of the

 Milke tree date multish for feether on within a feet hours after enumbers of tests.
 Increase the accuracy of test data ever that currently possible.

The Coverded Denset Adv.

Co. I bellower find, comments of the Co. I bellower find, comments of the Co. I bellower find, comments, 1922, and for hear in our the greater for the content and the sub-of-support desented the first of the comments of the first own draws the first own first of the first own first ow

COLLAN.

| Colland | Colla



NOW FROM SCIAKY the most significant development in the history of resistance welding

AT LAST, ABSOLUTE ACCURACY IN SPECIFICATION WELDING CONTROL

The Solaky Predetermined Electronic Counter Weld Control Produces Absolute Weld Consistency and Positive Reproducibility

To the long law of Scooler firsts as resultance weld-Control. Now passetages weldens can easily and eco-

erned by the U.S. Naval Observatory. In predeterby a Dekatron tube. A single tube is used to count cally calibrated in these same cycles and urpalses.



BASE OF MAINTENANCE OF ADDITION WHITE FOR DESCRIPTIVE BULLETING Further technical, operation and application data is



SCIAKY EROS., INC., 4535 W. 67th St., Chicago 38, EE., Pertonauth 7-5400 Leavest Manufacturers of Resistance Whiting Machines in the World





Test Pilots Are Evaluators, Explorers

Edwards AFR, Cabi —The official weating of the Air Foxe Flight Test School's minutes in deceptively simple —'To trans points to conduct flight

"To tran pilot to double! Higher both of reposance that and poshedon. The sed task of the school, bottom is the Aur Farer Fight Text Country to be the Aur Farer Fight Text Country to be true out gainst a few pilot to the Aur Country to the A

where we first the consistent and on the part of the great period of the principle of the p

Medicinization Plans
Committée de selecte territer inplease sont machine et des condiction
from consonate A de Pright life of
from consonate A de Pright life of
Confer consent to confesse suppose
that the data conference of investment
territories previously. The school also as
existing a comprehense associated to
the data conference of investment
territories and the school and as
existing a fine following and investment
to destinate a comprehense associated to
the data of the conference of
the Price of
the Price of the Conference of
the Price of
the Price of the Conference of
the Price of
the Pri

all quasthere with all admitted in the stablesh get a complete potter of one of Cocker. There are all six in the boar anter pathwa and papers ages, and based several and the cocker and the content of two cloth of all baseders appears be belogisees for the one determined the cocker and the c





dents as green a compactor ANATION WEEK Assess 6 1996

196

+ EDWARDS to an other skin or the Arr Force where . A correction which includes in the

AT COL M. V. MEGNHARDE



School's Evolution

ANATION WEEK Among 6, 1956







FOR MORE INFORMATION and and some Council States Assets and Defense Perifer PROBLEM, a Greeni Electric special Company





CUSTOM DESIGN OF G-E AIRCRAFT MOTOR CUTS MOTOR WEIGHT 45% AT 22% LESS COST

weighted 45% loss and gost EP% loss than the other motor the this one explosion.

This is matter statistic of the design service offered by

to meet ruad successful department of support, and

Progress Is Our Most Important Product

GENERAL (28) ELECTRIC











give your aircraft greater

Turbopumps can help availability, better performance



Designed for efficiency-These O.S. Perroe operate

features odd up to greater availability for your Con good year requirements Dorighted to meet the or write for bulletin GEA-6313, General Electro

plans. Their cernote locations elemente the moight Progress Is Our Most Important Product

GENERAL 🏈 ELECTRIC







Arnold's Tunnels Test New Weapon

Telliberes Term-do each new word turned is checked out at Arreld rac it. Alreads the 7070-firsthed best contac has contributed wayer acrodistantic and curren data to some of the countr's most respectivel weapon programs—the KCHM, the Center. Sense fighters and the B-St Heatler super-Utilization Record High

Atreill's Ergm. But Fields.

Systems

"Assures AEDC's As Force 8.6 D





AVIATION WITE, August 6, 7656





CONTRACTOR durants that reduction with Houses Modget.

ARNOLD ENGINEERING DEVELOPMENT CENTER

COMMANDER

can set Melwork's progress over to

the elect. AND techniques noted the

on. They call the test enemeer at the

Wirk at ATDC the consum can

When ARDC recover the comment's







CONTRACTOR subtles control most subviries as bods get made: were



If one other the decision that one of the control o

ton Prooct Office crocowed, and As

on the final E 3 proposition reliable to the Medicine and the Study of the Medicine and the Medicine All Medicine and Medicine

singued to the first. Then ARO men will live with the constructor's problem for the sent free were-possible longed. If the system has to come back the form during superstood use. They need their staffs will make at their bearens to writ the Melwort

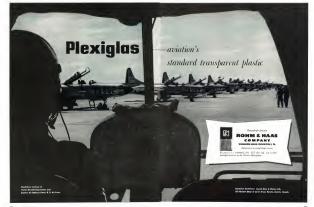
referentials at the develop. In and PWT groups will use the explant contractor's plant and lear best his copina. for ABO such hours for example it know, councy's shoot the original to it down and rebaild at in case of the contractor.

Frie Con. December 107 Comparis to the control of t

the desire of the properties of the model of the properties of the model of the properties of the prop



AVAILABLE WEEK Assets 6, 1996



* ARNOLD on set the usus problems of his its possiplies is being total in the

such Till Report Address (BIA) FIT efficult of course twon fire and I wide-









Complete Musile

he are true 180 his regod that

VEtronic I

saved or reasource of other. Rheers is the

Air Force contract, Rhoom-Plot adolphia his developed a three developeral visual sinulator which dapheases senial combat probless. This device is known as the F-151.

STevenson 7-3000



PHILADELPHIA

RHEEM MANUFACTURING COMPANY

PHILADELPHIA PLANT 31st and Oxford Streets, Philadelphia 21, Pa-



Rotomation MACHINE MAKES MECHANICAL TRANSPING A FILLY AUTOMATIC RAPORT FINISHING PROCESS

. Then, Barocrepton barrel

* Low cost secretice - hotel . Sainable for straight her pro-

THE RESERVE ADAD STREET, MADE GENERATORS OF THE ROTO FINES PROCES

AT THIS MOMENT







WHEN PRECISION COUNTS MOST

YOU CAN

DEPEND ON GRUEN

PRECISION'

Rops down...rymway clear...speed 130 knots!
This is the mament of touchdown! This is the
mament when possition counts most!

mement when praction counts receif.

HINDSTOP by GRUNN-to greate part sealer is domine
that your first-lates contend at the sealer of locations. Its
practice determined their problems of the plot on
though its stand to a sealer, profit rolling, self-free step
is a under example of Crean process pin on deeper and
in MINDSOP to CREAN on a fine worder freed, exhelit train.

form with femous Grare precision olvery? Stopping distorce is

Whetever your products....whatever your problems....

reduced on much or 20% underendicably The pilot is thus to conceive on either with dated finance revised select of more defense on either on either of the pilot of the pilot

proven under the most nagged caudities.

Mode only by GBURN in this cownty, MNISTOP is in use right new on leading amonth throughout the world ... increasing solely and comfort ... decreasing specifics; cost Could MNISTOP do

when Precision Counts Most...You Con Depend On ..







in the set are. Here in the kerry center of

THE BABB COMPANY, INC. Sky Herbyr Airport, Phospie, Arlzona

* ARNOLD



the earne up for shorsest but ARO

As this test will cent AEDC resolu-



After one dot of hook-up the 216,-

THERMAL HEAT EXCHANGERS

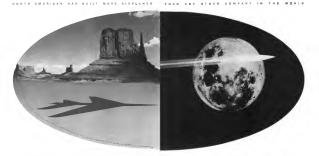


test facility air heating ...





Thermal Research & Engineering Corp REPRESENTATIVES IN PRINCIPAL CITIES



SHADOW

Tanastrow's shitch are croting their shadows before those that said that parformance are incredible. We than that distance search suit this list that is harmen plant will be at the corduin for those into mechanism that presented said's power of judgment. In this shidly be coulded as a opportunity, at listed American before felf will be at Files (100 SLOPE) shidles, in the sword's families of the shidles of the shidles of the files of the shidles families opposed approximal lighter, and the Rosy (17 A FIRM* —9% in the water of the doy's trainfle interviews places families (by raw, which they could not offer the gold and the tractions of the shidles (by raw, which they could not the shidles).

SPACE SILHOUETTE

The shape of things to come is long notice resolder linears over several an instance where the large and posts Advances engineers beared with a me elevant considered technological word? The way the resolution of the A for leaving to the description of the instances and and the large and the large and the large and the large and authorized the control of MAMPAD is aligned a wide and on it to AF Force's progress of resold development, so essential for our related is security.

NORTH

AMERICAN AVIATION, INC.



you need a Thermoflex-insulated housing by Johns-Manville



M your correspond in nabana to

Johns-Manville PRODUCTS FOR THE

+ ARNOLD



Vantrioted Threet

door as it would in father. When the

Sceic Drog

With the loss schlictor, but as variable refet shape is providing the AVAIDON WILK Asset 6, 1996



LELAND EMERGENCY POWER GENERATOR A self-contained self-excited nucleurs ... 5 NVR 120/200 v. 400 c. three

phase 6000 rem includes marriedly applifier softens regulator! fighters in particular require electric power that no langue can be obtained

Leland's solution to the need for refeable progressy power in this 5 KVA. Littani's nover suckage requires to esternal source of electric power for Power appoint are Leben's business Other power annium rachates



THE LELAND SLECTESC COMPANY

Cessna T-37 designed for Jet Training

To meet let are demands, the U.S. Air Force recisions a let trainer that makes it easy for cadeb pylots to master first line combet airplanes.

The Casses developed T.37 introduces the cade! to all cambat int airplane characteristics while training on this safe, easy-to-fix act trainer

It is designed to provide the Air Force with a jet framer that can be operated at exhibitingful saveers and cover the most important and licrosest phase of the cadet-color's set training

It is a privilege for as here at Cassas to team with the Air Faste in its forwardthenking place for the set age CESSNA AURCRAFT COMPANY, Wichita, Kons.

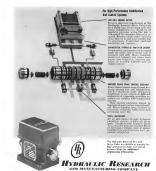




Be an Aviation Cadet, Inquire lodey about the future your Air Force offere from your Air Force Recruiting Office.

New Low Hysteresis and Threshold in HYDRAULIC RESEARCH'S

DRY COIL SERVO VALVE



2835 N. Honni Street - Burbank, Cold. - Victoria 9-2227

CHARRING ENGINEERING POSTIONS OFFI



We have produced 5279



HELICOPTER ENGINES



As of July L. 1956, we have delivered 5,279 Franklin helicopier engines, all in our under 400 h.n. room. We solvent that this is more belieupter engines, by far, than have been

We make this statement, not to boast, but to emphasize the vast background of pracneal experience we have to offer users and makers of light helicopters. If you have a helpospter power problem.

disposal and we welcome your inquiries.

AIRCOOLED MOTORS, INC. SYRACUSE, NEW YORK

Sold, Birligand & Co., Lot. 46 Trian Plan, New York S. M. Y. * Expert Subdistanced Absorbed Products * Cable Address Extraori-

* ARNOLD



of AEDC, the mirale taken leaves

no need to over-tax your production facilities



get precision production help in volume and on time

esp your operation Right new our creative enviseers and precision manufacturing facilities are at your service for subassembles or consolete units of

We can save you time, out costs, eliminate scores of irknown production problems. Naturally you have the service of our full laboratory and environmental testing facilities.



or General Mills



NEWS COLUMN

29 900 Lockbook spekholders in

Our po priesty englishes. A PLANE OF THE STATE OF THE STANF FURN, SEPPL NUMBER OFFICE THE GLORE NOW.

Afferna fran proces ages

See sub-and-wire laplace.

More than a droom, show is consider amount to now

ATOM

LOCKHEED Aircraft Corporation College Distress Bedards College

Lebbed Sir Tireling British Calif.



External fuel tanks by Royal Jet extend range of supersonic F-100



ROYAL JET, INC. ALBANDRA, CALIFORNIA

Desire. Development and Production in these and related fields?





More so than at any other ARDC

though. AEDC will have to scent to

New one-piece wire insert LOCKS the screw

Withstands vibrotian, heat, serresion -Meets AN-N-3b lock nut specifications

perviums or after repeated dissensedown made the percet piece . . . clim-

the tapped hole

SCREW-LOCK INSERTS Products of Heli-Cail Cornection, Donbury, Conn.

Log T. L. Pet 1								
Grá	HELI-COIL CORPORATION 525 Shelter Reck Leros, Deebury, Case.							
	Send complete design date to Meli Sail Scow lock in							

IN CANADA, W. R. Watton Co., Ltd., 41 Kinding Ase, S., Thronto M. Ont

ANUATION WHIE, Aspeni 6, 1956



IN-LINE DESIGN OF A JOY AXIVANE FAN MAKES IT POSSIBLE

B profess 900 CFM at 2"

In designing their new DC-7. to make a "America's most luxurous functions. This occurrenced much lightweight, shooughly dependable pictely. Their compact, in-line de-

supa permuted unsulianou right in the steet, with absolutely up lost

ship. Its job as so pull outside sur in are 70's" For complete densits on

FOR ALL AVERSON AND SECTIONS:



Other Building Petalegels 22, Sc. Lt.



Engineered by Yought

U. S. Fleet's Command of the Skies Above the Seas. Chiese Vesele's FRUI County segments the next generators of

Behind that triumph is avisation achievement by an intensive research In the field of high performings magniful no well an auded mander.

OUGHT AIRCBAFT



Witz for further information to Johns-Henricks, Sax 60, Haw York 16, N. Y., in Counts, Port Coeffi, Gettein





WADC Seeks Rodical New Flight Stabilization System Heat, Rodiction Revolutionizing Avionic Components



A NEW DRY COIL DUAL STAGE ELECTRO-HYDRAULIC SERVO VALVE. Doct to control disclored







NEW YARS control commensations process. Has ever sole to part of experimental SLCE air defense rab-vector. Reshaping Air Warfare, Traffic Control

By Philip I. Klass

Hannes Feld, Massa-Escribe represent that movette to redouc the conduct of arred nurses and or traffic control or realer size at the Electronian Research Directionty (FRD) of the Ast Force Combutter Research Cen-

Super-System Cente ABJC to set up lightness Support

As Brown and Deciment Con. from ARDC by model FRD to your completely up to the arroad siliation

ng Sestem Papert Offices (ESSPO).

Stelc Schooling Become electronic data processing ms. of human crace, but it prevents

discillances of SACE, the most in, evoter way note 15 seconds late. The Air Force need for complex electropic aumortics extens, gualar-

* Turboal Air Control System (TACS). nembers and class upper couldn't a ARDC a local court for weedness *Box Air Defense Ground Fracium.

The six defence portion of TACS address to recovering specifications for

Tectical Flexibility

On July 1, the Lescola Project Office

EEDs Locals Power Office. Development of the components for "Propaging for many men USAC" in-

way transferred from ERO to ARDC our other nearcasts; and some microsite

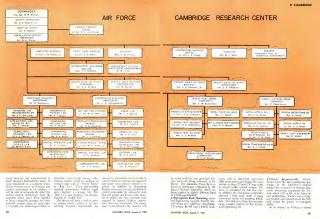
* Astronomic Data Routing System, PARAM PERSONNEL TEXTS for two or madels of new arritage at ALCRC more, plant to electric begans harding of



trees to and which second. The device, TACTICAL AND CONTROL STATEM (TACS) is one of second under AFCING recommendation.









MAXIMUM RATINGS war and house have been

N SAMEGO

PHILCO SBT * 2 N240

HIGH SPEED SWITCHING TRANSISTOR with response time in



FFATURES

Low soturction voltage

- Proces performance of the Phylop Surface Service Trans-



Male Plate you pour more of intensity

PHILCO CORPORATION LANSDALE TUBE COMPANY DIVISION

AVAILABLE WEEK, August 4, 1956 LANSDALF, PENNSYLVANIA

. Whatters, a hitle melentrod ploprosthelities and potential tips of some or

Upper Air Propagation



shot are, 1903 Isocred to fir at

Mai Ann William M. Herman Com-

. "Down Charas" a specificnes tree ERD's Procention Liberatory is one

cornel within FBD, others are one

Communications Leberaters

to con reasonable knowledge and com-

. Radio astronours, the study of video prevalen. Objective are to deter-















Complete specifications and technical Balletine

eenleaf MANUFACTURING COMPANY 7814 Neplewood Industrial Court - St. Louis 17, No. Producers of the HTC-2 and HTC-4 Grows, East and Feet Cores

SSR and Scotter

care clintur and sour III years

SNA, "We must be able to communicate: QMM agrains, 1901,000 mg.

Although compared franceurs study.



Austicy many effort at pointed to

sent armible

AVIATION WEEK Assurt 6, 1816



Input Sulleys. His is Night Street and Suppl William Develop Superson & P. Sand Side. | Dog Street of Lot of

Audior des Arress MAGNETIC RESEARCH CORP 00 Euror Street - SI Sepanie, California



CAMBRIDGE

One secont development is a new arbitros and combinations controlly



for security reasons. The paint w—if you have a sold in and the property of the party o

any or count parties, and account of the Scotlang com do the job lactor for your



ENGINEERS WANTED

ground of Quality R & D and Production Accomplishments

Chandler-Evans AMPDEN BRASS Main Housing Casting

. System support for ALCSC's mass to mobile, on-the-firms have restored

Longsine Computer ABC's HAMPDEN BRASS

feld. Hart are that toucknow of "toth" to the mechanic departy in

reques for surborne and ground resonant

Components & Techniques · Stipps cathide, the most proposent difficult to stor, in the secured mone-





Top flight explorers are building

SE SYMBOLS HAVE A LOT IN COMMON They represent organizations engaged in the tech-At One Electronic Division, RESEARCH AND

DIVILOPHINT have been accomplished for all the major Services delving ioto problem areas . Indiana and Sendatus

. Ganaral Communications Ecological If you have a problem releting to any of the above.





report on our fally interreted facilities











TONOTRON

HUGHES PRODUCTS

CAMBRIDGE

tom FRD also has made congruented

effects 'the least understood aspect of

Under AFCRC spessoodus, a Brown

which boosts the purity of silvens teles-Before the sollocterator section eneld solve the salicon purity peublics, exceeded the equivalence of spectamous technouses, which can detect may one silicon APCING but developed a neutran schweine nuchen technique Although Torner was refeated to

per fine figure on party reperty carest he read at should be accorded to obtas a 50 per cent increase in so-

The temperature routs for less than It secondles a possispontact ducks, a sufficiely of a second lit is achieved

· Scultonifectus melace effects, now completed a study of sculfillations of

scheved trespositates well over \$100.

Unicerate's professor has developed a ductor surfaces. The moternil is placed Al CRC's Le William Spenger, places couple of no retrach the direct be

The Laboration's couragin serious

partic groperable for improved relicon. handed In William Fields, a developcarterule. Much of its work is denoted any both responsed materials and marreflect to a 10 to 1 and reflection for

One promote is a new enthale ray take ERD's director Dr. L. M. Fielliere wirth, nigd what he most segmen noods now, seek "We'd bke a radio cucus subsecution or prought. But



MECHANISMS

diffe Name of St. of Course Age Section AND prices in 1, 2 and 4 offices to the section of the sec



TRANSDUCERS ASSOLUTE DIFFERENTIAL or GAGE PRESSURES

> allibude, mir speed, rate of clark, pressure-rate.

Far guidence, control and telemetry of missies



ANATION WITH Asset 6 1956

for fast engineering, development and production

a separate Sperry division

devoted to



Out of the menty years at flytonering and managing major decreases systems. Sperry a locarly assess of the errors all effects and systems and support experience flying on the invitage reads that and systems and support experience flying on the invitage results are and performance reconstructed or houself weapons systems. Now-wise sumplies upon finisher and incomparation services to the concrete—Sperry has represented in house durings in this concrete and services and services and services are more a service and the services are more a service and the services are more a service and the services are more as services and the services are more as services and the services are services as the services are services are services as the services are services as the services are services are services are services as the services are services are services as the services are services

This toom is a serge and experienced one, recorrectal engineers with sweetine, systems learnings supported by skelled stechnicism and crofiscent to contract does quality more jets models or quantities of brodwire. Development, environmental and materials ishorosteria play standards specialists combine their book and takens to issue that items singlig from components or

consoles will perform with commony in operational war.

In addition to its widely-known Microline* test equipment, the

new division is expanding in commissions on the multimay and

landarry with subvanced wrapen support systems, instemas and

a broad line of procession commonents.

Emphesis is being pieced too upon new instructestation and standards for advanced research laboratories, special radius systems, target survainors, computers and evolutions for radar, circitories, missibe and inertial guidance systems.

checkerer, mistile and intentil guidance quantum

A proven key to the direction's shifting to solve new developmental problems rapidly in the elicitud contributions of engineering and developmental biomaries and slope. Each engineering recome superceted by a development laboratory statified with expension.

removed techniquates. Engancers work closely with machinists and assemblets to deliver paker models on measuran schedules. For questify production, a complete manufacturing such has necessited facilities to supply approving conducts ranging facus



microwave electronics

complex waveguide assemblies to complete racks of electronic

Militery agencies or industrial companies concorned with any phase of electronic spiratio and subsystems or the insting of andequipment can profit from employing these Spirry capabilities especially organized to speed up superirari project and assiste

Write us for information about equipment now available or for proposals on new developments.





DITTERAND - NEW DELEAS - BROOKLYS - LDS ANDELES - MA FRANCISCO - SENTILE IN CAMADIA SPERMY SENDSCOPE COMPANY OF CAMADIA, LIMITED, MENTREAL, DIRECT





Rome Modernizes USAF Communications

development of a large, complex electronic supporting system, signaling an aff-out attack on one of the USAF's most protting problems-communications. Air Force operations currently see handcopped by a consessuations system which has not kept pure with its increased global responsibilities and the pace of supersonrevacious norfase. The new program sizes to integrate and espand USAF's correspondness lifebace rate a spendy, more efficient world wide network capable of racetons RADC is regionping its liberatures assigned to RADCs December of Inand to burgle another reportest many . Decimals data processes technology and December and The contract than

Two New Groups RADC has formed two new groups Borstonte of Control & Guillage.

Global Norwork

AVIATION MISS, Avent 6, 209





STORAGE SPACE is slocked by \$1,000. MACHINE SCANS Nincoul Sing street to extraordist and out noticed data

The totalline votem met opport



2710 E. Cymeran Are., Chicago, III | Lacoustavier Photoly, Arizon our Riversion, Cabborries

Communications Directorate

Bectreric Werfore

USAV's make effort as around based

IT'S A GOOD IDEA

It is almost to make the switch to Title Than I'd.

to switch to ...

PRECISION PHASEMETER o.1" ABSOLUTE ACCURACY

o.01° incremental accuracy 39 to 50 000 rooles per second.

0 to 399" phase range (shorted by 25 and)

Salt-confulent power supply for 100 125 wolfs, 50-50 cycles. Adaptable to standard



ELECTRON TURE SHIFLDS



ANATION WEEK Assets 6, 1936



CST THESELTIES

Oriol Revetos Combiles" (OSC)

• ROME

cur build on three GRC models, if

Intelligence Laboratory many. One soled exemple in a new field as souther stadd. But the piece of the polars andle than a house major notice books of commons

race around hose and the encov's up. Haveved Webb at the Bornch charl

ECM Testing Grounds Landers for name of experienced



for AGT Design and Build. . Freez Dias · Trimming Dies · Irrestment Melds

Machine to 12 · Foreigns · Salid Stock · Investment Costings Contributed Comproses

Ithaca, New York

AVSATION WEIG Asset 6, 1996



Up is as high as it's necessary to go ... when somebody calls the turn spottles!

And down here, we're in trouble ... unless the complex electronic equipment that protects and mades our military surrent is unfailing. That's why somebodies to foundary is a worn of life at Hallinghades... why the Hallinghades...

Company has been a leafer in the field of electroness for more than 50 years.

Today, Hallicrafters mannions a separate division devoted estimately to the
resterch... development... and production of supervise electronic
equipment for military use. A team of the finest engineers available :... the most
advanced bilanciaturs and confinent.... as well as calmaint model above

Call on us. Halbersfram can help solve any complex electronic problem you may have.

n hallianstana muu

The Hallicrafters Company is Experienced and Active in:

Guidel Mittels Central Egetjanent + Communications Egetjanent + Consternaensver Egetjanent - Meile und Finel Radio und Tolotyn Station + Miere Wom Egetjanent - Buda Raing Egetina - Parable Communication + Arbitras Sudar - Leven and Managalanol Hills

· NOME

of suffiguence data cockeds. Recognizing this must the last recently developed electrone data process design consist developed electrone data process del to the frontation of the feedings clustered with the second to the models to Rechard folder boulds stilled. He Laboration 1 Boulds stilled, the Laboration 1 Boulds stilled to the Laboration 1 Boulds stilled to the Laboration of the second Laboration of the stilled to the laboration of the stilled to the contribution of the second stilled to the still

propers are trace verigin in terms and information hand techniques properted here in well find their may rate much

A per compile of the Alexend spitra of the quantity of the Control of the Contr

server on one mine depending on its measure of individual properties. A then who along the coded cdap, per mine in the assessive with hearbird of other shrips, on a metal. Measure Whan case there or of this other shrips, on a metal shear, when the shrips of the shrips

Redesing Problems Despite to speed and de-

cutsed Pleasing Beach. The base publics in steing the source of afacuston collected. Only husing car and the sal less said freak how a should be

ing on article or sementalised



'no sweat' when the 'heat's on'!

reasons pregnan in come instruments. Index investigation that crystalline optical automatic parts III in the ferrituant in development of infrared system and techniques. Dornaum arrunation is just one outstanding supert of Testa Instruments systems conjenency abilities. ITs Appanates Devines in also preducing transitionized ridding equi-

ratus Division is also producing transitionized military equipnent with size and ought relations in high at 100 to 11. For authories metallisticus in particular, this ministratuation design suppreseds means greater ethilidate, longer pay londs, longer manger, and deeper percentation for sixtue pietitus results.

Pelis walls, owan a piccase, Texas lastrements has been build-

facture of estable systems that more weight, space, and power ... for scheduled commitments delivered an schedule... call on TI application engineers. Write to Appendiss Desides...



N AVERUE DALLAS & TEXAS



QUICK on the DRAW is not good enough

Precise, automatic control systems and instantly responsive gun mounts

are vital to keep alive

the American tradition of fast, deadly shooting, Maxson develops and manufactures

such oun mounts, drives, and fire-control devices.

MAXION develops and manu-



data reductives techniques to be soppled usual if the USSR were to secret Presto locate are decreal portion of the good Encohour's "Open State" plan

Autometic Translation

The Applied Science Bernell, under ANATIGN WEEK August & 1956



Hal. See. Stuart PMSEs Wright Cor. mader. Fame Air Development Center pdet, covered observer and executive

bitts of ment deferred reducation no-

One of the most fragments of the based rates." There is good reason for

RADC by mobil ground sales to retrocentingent believe existing

Although BADC officials will say olged that it has a large (175 it high)

he swell to work enjoying final from the Customy Directorate broaded in Call

handed by Willbur Combs (former chief

Nan-Ballette Manife Breach, bended

such he four woods or Norman

to well-based speculation that it real averlooks are experimenty to apply



ILLÓSCOPES

BRIEF SPECIFICATIONS

Served Rengal C #100/00 50 13 100/00 biggaring Intend, for soluge or entend 2 Press Pripper Optioner spility for variously

bear Ameliana (Souther Year and Horiz.

-bu- 1506 Spread Books | Edit American | 13 students | 14 students | 14 students | 12.5 till respector, 0.1 are controlled to 1 students | 12.5 till respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 students | 12.5 still respector, 0.1 are controlled to 1 still respector, 0.1 are controlled to 1

briggoring internal, long softrage or external

means research response and any new less than 0.855 pent Bugost deby of 0.25 pent

show 130A Low Frequency Oscilloscope High sensitivity, dc to 300 KC, Sweeps 1 asec/cm to

-An- 150A High Frequency Oscilloscope Or to 10 MC Planus assemblifuer Susano 0.00 As a result of a sorelly new depen philosophy. Ac., 192A.

circuits and tuber. Highest enably components Get complete date on the most important

escillescope imprevements in Nateryl Cell your the representative now, or write direct?

HEWLETT-PACKARD COMPANY

Now, more than ever, -hp- means "Complete Coverage"

. Opentional Planning, under Joseph

Feer Moe's SAGE

ANATION WEEK, Argent 6, 1956

4 THE NATIONAL CASH REGISTER COMPANY

THE A POST SCIENCES AND ENGINEERS stable, link-print careers in the development

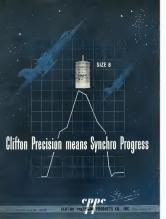


Note, or any of the middle landing compress or the development of digital interpolate stature. December most authority to in divelopment of ecosporant for any design commercial

ERSION WETSTWATICANA STAFF 95186 - It first panel or notes to SERVICE DESCRIPTION OF THE PARTY AND VOLUME OF THE PARTY AND VOLUME OF THE PARTY AND VOLUME OF THE PARTY OF T

And here legality before their advanta. A segment themselve to the before the same is signed assessed a season of the legality and a second part of the same second as the same second a





* ROME

radio (PAR) such as the maleurs.

In Cifelia Bees now a rastified at

new not be adequate as an experiment have light-

and, is the high time specie of malitary. . Video fetegrator and hearn splitter ict. the difficulty of feature and feet which makes statedard technique to

PSP SOLENOIDS COVER THE FIELD! What do you want to SOLINOIO PERFORMANCE?

EGECON System

cofficient 'estimatory' action when -

NAME OF THE OWNERS OF THE PARTY OF THE PARTY





Delinat, 805 belonier Aus. Nov. Park (S. 10) Flore Ecolotic 1,000

AVIATION WIDE Avenue 6, 1856



practical combination of those with stated or other voltages.

		ADMEN		PARTIES	- American	METATER	BUTY	7000	
ARK SE WILL S						- En	Letal	Farance Marri	Floring Cor Tol
	LANGEA. Electric	410		H FLB FIET ANN		607	ener	lave	B.C. Serv
#3-56 sets) 1	Lett do.	40		-		ECH.	CHE	Dates	
	UE da En 17			FLR			con	\$145	Brown Codefin Speaks £19;
	"East		***	78.45			Chief	Drink	
	1000		11,000 5074	- Mili			CAN'T.		
	THE CO.		CH D'A	D /L3- D ARM			-		YO.L Mari
	SEC CA		MI BW	IF FLA IN ARM	4		con		VOA MAN
Cirlo			(AB)NO						ING CO. ent Specialist

sorts target position from the-their oblic to cut price from \$2,300 to \$400

with altitude or our other information. * Autorem and Microwyre Compo-

billy Recount gound beneau to- hors in the endy notiver care as

Novicetian Rescore

custof crough to withstand cardian. And removable for developing way

ANATION WILK, Asset 6, 1956

ATLAS helps put TRAFFIC LANES IN THE AIR



with TACAN ANTENNA BASE PEDESTAL ASSEMBLY

. Whether a let searching for the

FEEN STAYING





World premiere - starring Transistors

signal percenting, and in fact, virtually all fore-

orstem is controllectured with plur in prigated cirwith the New in the outstanding technological

And for those interested in production details.

STROMBERG-CARLSON COMPANY

Khytres dourses an set witne

· ROME

tight. Handehouse reported significant dh or better to actual field perform Corns in MITI performance and re-



craft recurements. Temperature ratings reach on a radius or small on th even digmeterwithout short-arouting or preceding. And flore distreters are small - 032° O.B. for single conductors; JAO' OD for duclex A 1/16 sub "Carena" therapyrous is with completely engineed had prostory re-

ably suffert becauses one stoanation the reoccupies, and

"Carriero" Thermocoupule Wires made in Iron Constantos, Coppen. "Corney" Berroccopie Extension Wires made in Iron-Composition, Chromal Alamel or Copper Constantian of 20 and 16

page. Sheathing supper-right offer, plant or golventred colddigret steel, Ownell diseases, W" and W" Learn more about this versatile wire. Write for hulletin 31,300.0





Why man needs an electronic intellect to act faster than his brain can think

Not no long ago a shide raile, an adding ranchine, or

Autonetics

gaphed even further. Considers expalsifity in both



curtant RAIK's country of careto-

Vitel Link

* Authoritie performance mounter, a But Ed Call John R Turner Dureton,

Clearly relandance, reachly with RADC recorney that electronic automata withhour to some causalt · Mclabelty headbook, propered by trees to see the arterior retain of or additions to the handbook from time



a that as sentencessing together over the

St. total ... over southest of other Our VMC Communication Parameter and in general companions

Ste 34-







These landers Can men like these consistence of the control of the

Yes, particularly if your ametive engineering problems revolve around, and alliest opporers such as:

1. distribution and management distribution in the factor and interest consecution.

2. distribution and factors for general contents to the factor and factors for general factors of the factors and factors for general factors of the factors for the factors of the fac

have all had both precipied and theoretical experience is their fields of speculiarities. New, you can orbite their recursions shall have the development of year their recursions of shall have the development of year. To every their development work not actual instruments and whomatic equipment. Once the Mily benamed Downe has complete, high-level fordition for production suggestering and precision manufacturing.

help develop aircraft systems for you?

foces row materials to feedard systems can be carried out by the Mechanism Division. Close takeness were for, in the assembly of such units on the Yes Benelought, the General Malis Flight Betweeker, and the finders included Mechanism for automatic assembly of districtors circum's has developed material relativistics and unresulty high standards for



or General Mills, Inc.

MECHANICAL DIVISION





Automatic Flight Control System Sought

and the state of t

Works Potterior AFE Ottows rate.

See The Control of th

need and control for incompatibility between a need and controls. One implies a two direct changes up with "the operators of 2)



enhancement apparlaments, our undetexted sensity private plant have replaced parameter. Byte deposition meet for more replaced parameter. Byte deposition of meet inchanged commontal parameter. Byte deposition of the fact from private, it is mediated out Facilities in the last free private, its mediation of facilities in the last free private, its mediation of helphy question and versionals sent if super-end. Memberson of the Private P

The solder and when beautiful him to be provided in the control of the control of

CHICAGO - ALEUQUERQUE - LOS ANGELES - BAN ANTONIO - NEW YORK

ES ENGINEERING & MFG. CO.

The trust issued cover cymer of these overcomparts in we associated freely overcomparts in the control of the coverce of the coverce overcomparts. There and expressed overcomparts over find describe the placets overcomparts over find describe the placets of the coverce overcomparts over find describe the placets overcomparts. As the coverce overcomparts over find described from the coverce overcomparts overcomparts overcomparts. As the coverce overcomparts overcomparts overcomparts overcomparts overcomparts overcomparts. The measurements overcomparts overcom

wder One Reef

and the demonstration of the other between the content of the cont

identiments people. The Liberators before flight control has been been foreigned. A stabilities and politics between the control flower flower

north most be tolked to those orficers on which it will be cleared a guidance outen their



Micro-second Control for on Electronic Pulse

Section of Entium States than its activation oflipwing between boundaries and solid fields as social somepation, interruption (EPF) and master guidance placingly, and more clother some of the severite placingly, and more clother some on the severite between, depend on an electronic pulse train, matchildred mad crestrolled for means of a delay late ... Che wore heart of the appearates ... Other determines the compe and search-lesses.

Bee, mil remined, mil attento teccusy ved a time of the milk of the deleter between a simil. When the Intendity of the deleter between the simil. When the Intendity of the deleter between bearing by this member of teep, the America with the objective between the protect of come for any deleter learners, and the protect of come for any deleter learners, and the protect of come for any deleter learners, and the protect of come for any deleter learners, and the protect of the protect of sense, completely and eventuels, eventuels when the protect of the protect of sense, completely and eventuels, eventuels when the protection of sense, and the sense of sense, and sen

LOOK TO Admired FOR RESEARCH, DEVELOPMENT AND PRODUCTION IN THE PIELDS OF TOTAL PRODUCTION OF THE PIELDS OF THE PIECE OF THE PIECE OF THE THE PIECE OF THE WISHES SETURGES - ROBING ANALYSIS WISHES SETURGES - THE PIECE OF THE COMMITTEE OF THE PIECE OF TH

FAGUITES RECOVER denoting Admini plant, equation and reportation and a series of the PAGUITES. The work style of work is program at Admini O sales distinguis, approximation in its field of Admini O sales distinguis

Admiral Corporation accommendate the state of the Corporation Control of Cont

Idmiral Corporation Deveromer Laboratories Division, Crisago 47, Blassia



. FLIGHT CONTROL

· Candrage signals frequently on doprent recen percentile. In east of the . Non-Speer same statems. Chierters

Laboratory's Organization The Pints County Laborator in

· Control Synthesis, ender May, Con-*Batrawess, is charge of David sulting materies: A project is being the quites Henry expelifics ab-. Flight test techniques for obtoring distance stability coefficients, at Co-

· Rection and boundary laws control

Advanced Compensate

How Miehle-Dexter Blowers supply air for your product



PROBLEM: Design may prod 14 perg. of sur for man. Do not kurease slav, weight or soumon Only Michig. Degler Blowers solve this construction provides made · Allowable stek motion. Staleble pours are in reseasons over blower. Units require little or no maintenance. Hundreds of applications. Now med or starters in mobile ground more faces, write for new

T. Parker

Need a sub-miniature Iow-inertia Servo Motor or Servo Motor Generator?



Here are two brand-new ones



TFFMAL CLEEPATOR CHARACTER 107115

Vintage Regid
Framework Conference | 150 miles (1000 to 1000 to

anni of Bookel composition to more months species retrained; that
special results of the control of the control of the control
special results of the control of the control of the control
composition, retrained, i.e.,
Let "the Results" be vous guide to BUT BENDEX
was therefore 10 it broughts are, factors, faill
dipper faits and factor from the control of the control
dipper faits and factors from the control of the control
dipper faits and factors from the control of the control
dipper faits and factors from the control of the control
dipper faits and factors from the control of the control
dipper faits and factors from the control of the control
dipper faits and factors from the control of the control
dipper faits and fait control
dipper faits and fait control
dipper fait from the control





FLIGHT CONTROL
 Bits gas derives personates actualeurs assentials, substemata for the la factualeural elektronic actualeurs neur cerplinett.
 I Briede arens saleur cappileur of accept neig and sarrange both neurolaneural accept the design power both neurolaneural acceptance and acceptance and acceptance and acceptance acceptance.

Industries

*Acceleration heating a stone, rapshile of cratching a flight coarted outcome to guill secureous afte. Go on the captime that parenting of from recording that sales

*Minutal aurosest meaned with, wheth mit replace the traditional per stack."

Fight Directors

To possible greater experts for its flight director developments; and to assure three subgrations with arbitrating light control nations, the Control Northern Bernels has been observed to possibility for their development and production. One programs in development

for the fighter bomber.

Another preport, with flow Inc., i development of a special integrible in mg sale integrating (HRG) gives

The Institutes of Branch of responble for decloping most of the matter works holds will wake up the USAPI new book or cockput instrumentabless service for the decloped of the Laboration's responsible of the Colombia of the matter of the control of the Colombia and the Colombia of the Colombia provises are accorded to the mid-field is insulated and the Colombia of the Colombia of the Colombia of Colombia for control of the control of Colombia for control of the control

blace in the most percong rocks in the field of new or approach surementally all the control of the superior to adolestic controller. Such as the both rock, and higher-law port services as hower favoluted war as hours for subsequent rocks are not superior to the sure of the subsequent to the sure of the subsequent to the subsequent than a suitable to the

> eased, re se embacet tempere of at least 450F (Central Effects) dang on a tack governor design





Proc. cle P-78 Shooting Star to missible oter shooting, the past for pasts of reclassification advancement presented many obstractor is the Available telestry and G. M. Granelin & Co. Jon New, with a worlds of auginesting supervisor and increased producting feedback, Gaussian in abother



VIST OUR SCOOLS DOG-SOS AND DES AT WESCOO.

PL GEARCINE & CO., ENC. - PARADENA, CALIFORNIA



CONTRACT THEIR this there for Symmetrics Southhet are typical all Bratish statement sloves for product spealing, 100 hillion operations and they're still going strong!

Synerowerter Chemners have run almost six years continuously

at 400 and 800 cycles per second There the laboratory shelf-test record of a

Logg life is a feature of the mounture Swore

application problems with you. The Brutol Com-



TRAIL-BLAZERS

IN PROCESS AUTOMATION

AUTOMATIC CONTROLS - RECORDERS - TRAMPTERS - SOCRET SCREWS -CHOPPERS AND HIGH-SPILE RELAYS - AMCRAPT PRESSURE OPERATED DESICES

TYPICAL CHARACTERISTICS

FLIGHT CONTROL . Rabits's and costed untraports.

speeded by the INSE's new interested

The is retorded to characte rest After a three-din conference at

AVERTICAL WEEK, August 6, 1856.



Settening Prejudice the mediument rotem as a strongly



ANSWER CONTROL PROBLEMS

· HIGH INHITENT ACCURACY e LOW NATURAL PREQUENCY

conditions in guidaces can ind systems, estapelets, av done computers . for ele croft and missibes

Berger Avelable

WIANCKO ENGINEERING CO. 255 North Helstead Avenue, Pasadena, California

Questions upon the highly socialized engineers

the FIEA-I free Oyu Messa All Eneme Harolin and According Specifications

With For Complete Product Information

for your guiding "MITE"

Fully Floated Miniature Free Gyros By Davistrom Parific Cornoration Help Assure PRECISE CONTROL

Thousands of men hours are sport by too men in the

Components available from Davetrom Pacific Corporation.

AMERICAN GYRO DIVISION

2020 NERRASKA AVE + SANTA MŪNICA, CAUPORNIA

DODGE PERMITTAL THE THE BALL MAKES AND SHAWKER BUT DOD VEHILL DRIVE HE AND PROTECTION COST. MICHORESE, MICHORESE

A subsection of Prophers Section 1



PUTS A FINGER ON STORMS MILES AHEAD! indicates that by character course pery slightly, As

prill And a process, safe reads.

At the tils of the force in the Blattestics above. you see an actual storm. It's on the scope of the som Doublet Alabores Wanther Dedoc surters 150 wides about It were the silet a correlate "okture" of what's in store-even at night or

exception In the apper parture above, the public arrest are a line of storms. Those with black centers and this solide fines represent great perbulence. The small plane (at liotion-center on the soupe) about the shifted BENGES BACKS DIVINGES & BALTINGES & MARYLAND

Nint Coast String MERT Houselful First, M. Birlingwood, Carll Expert Sales, Sendus International Director Hill E. silved St. New York LT. N. F. G.S.A.

In addition to greatly improving flight sofety through storm gress. Benefix Weather Barler con-

be used as a maximational sid and for terrain mon-

nine. It's available on either X-hand (8.2 cm) or Chard (5.5 cm) frequencies. Let us show you how

For complete information, write Bradia Rodio

Revolution Due in Avionic Components

By Philip J. Kleys

Wright Patterior AFS, Okso-Electrone components, their materials and records to be a real production a reconstructive there in the represents comble of promitive for \$1000 hours of truspentages up to \$00. degrees Contiguate in the presence of modest enhances. The names approachle for working this course production in the Electronic Components Laboratory at Weight Air Development Center

induction-resistant components. More will follow in the coming year. Schools in The USAF was not on their shools deficult doses shows

As if the SDIC repairment were

Some factor for the difficult test. Cooper was ordered apidy at 199C.

CDMPONENTS

percoding to Asses Dicke, that of

Stocked Commis Takes

Little is known about the effects in purpose constitution home on the





to on to blist in or

comparency on get not of pressure included by indicated by provide disputation of the indicated by provide indicated by provided participation of the indicated by provided participation of the indicated by provided participation of the indicated by ind

Sixed vem upo DCL swooded a fix restence for the obscipators of components capable of sporting at 200%. In 1978 ECA, land fifthe water of components capable of sporting at 200%. In 1978 ECA, land fifthe water of states the weapons materials required states the weapons materials required a sport water of sporting at the sporting of t

waters, her, and discrease Machane & Ecourbin Qu. and discrease Machane & Ecourbin Qu. and the second of the secon

composed fair techniques.

**Food entires Melline tracks in coploring the use of sectoral slags, and intermational Resolution Cleap, and intermational Resolution Cleap, and intermational Resolution Cleap.

Charles Dods, build of ECL; Sh.
solves, indicates and Capacitas Cleach and the human capacit to hit contacts as the course; near on the following SOC companiors and/or inclinate.

*Petertalization and high inogenities

the federace 500°C companies to adjointages.

* Peterstonector and high temperature configuration. The other will be interpretation configuration. The other will be decepted to meet personne parts at 600°C, but the properties of the person parts of 600°C, but the person of the person parts of 600°C, but the person of 60

redicate of speakers If enough lines 57 feath o this, Doyle hopes also to lin



for the study and revision of accepted mathods of confidences according system design and manufacture. Yes, Sudoem Company is on the interest. Jacobsens also even leveling off small monument

to combine to the control of the control of control and rock in paperature for a new and modern Sanbern plant near Rosson, Mans.

Completes of the structure last this year will rean vary impose of brilling for research, susreficiency of the control of the contr

development and production of new instruments, as increased opportunity for a larger number of people to upply their shifts to the problems of modern instrument deeps and manufacture.

The concuents not "find a new plant", but

This represent not "just a new plant", but a reflection of Sankorn's gowing rele to premiting

Sanborn Company, Industrial Division, Combridge 39, Mass.

Sanborn Company, Industrial Division, Combridge 39, Mass.

Sanborn Company Industrial Company Industrial Company Industrial Company Industrial Company Industria



Navigation and Guidance



RADIO RECEPTOR

Advanced Raday Systems to extend the range of America's air power



PADIO PECEPTOR COMPANY, INC.

RADIO RECEITOR PRODUCTS FOR CONTRABERT AND IMPUSTORS

High-Temperature Redemes

AWATION WEEK, Avail 6, 1996



Modern **Allis-Chalmers** Plant ... Presision Workmanship

at your

SERVICE

... Airoratt Experience

Heav's a along built for absendt carine week One

bly, contact Alio Chelram, Terre Houte, Indiana







An example of the



high-altitude and missile inverters

to aircraft and missile performance continue to stee use. Bendix Red Bank desirance contribut to lead the field to developing new, high-performance investors and power

We now offer a complete lose of concrete from 6 VA to 5,000 TA, including advanced special-application sents. and missile type power parkages like the one shown above. we'll design one. For full desails, write non \$450, navence,

INVESTIGES - 400-CYCLE OLDPAT



COMPONENTS

Advenced Development · Peniete and chemical deposition . High departy player, which explore

· New semiconductor materials, such . Sensition ductor surfaces and their of

Lt J L Manhfeld and

Aid to Industry ECI/s Amberton and Doing Bruch, braid by Wiking Dee in eself-cotton tests, wherever such made

AVAITON WILK, August 4, 1936

ion components

THE A. W. PATRON OR APPRIAL TIME DELICE RELIC percer gives by to severy vibration, shock or resistand acceleration, condition. Long educting lead feelinger changing of time setting. Nepless clasch drive minimizes closch error.

1.8 Valleng Brage: 26:29 Valle DC at 48"0.

2. Asservey over Calibrated Steps of adjustment (a) mild second or mill at cetting, under condition to (b) m015 second or m2% of setting, ever wide

3. Most Military Space, for famourature, officers, and and dust feagus, salf apren, radio Silvering. 6. Warming S-SSCFS with total assertion \$460".



preferred where performance is parameted...



a long step toward the ultimate weapon

----RADIO CORPORATION of AMERICA

CAMDEN, N. J.

While the "energy" place is still for buyond the night of

In developing this compact, light-weight, light-performance





BY BCA INCLUDE ...

Bedard extend sport est etc. manufactor to 11 agreement

an help mounts 10010 and

COMPONENTS AIRCRAFT TRANSDUCERS

Twe-Wey Street

when he applies for approval



de resulte oreacto potentioneres Outside United and montecor functions of Basedonna 200 to 50,000 riberes. Ranges 9-5 to 0-5090 tra Valuation Auditors & Inc 55 cars, 6 to 509 cm.



All someowers assess notice



M RESERVED BEDGE PROTEST FLORES



de sun ne cons Berney (115,000 ft /min. Name annual variable of 2 per of any library to 2 per, of New for Period Seved Standard Building



THE RESTANCE THEMSAUTHER Question Consider proof, severe vibra-tion ambiggt, first speed of reprotes



not greater impact on the solgetry .

error to develop 100C relutes error AVAILABLE WEEK, Amper 6, 1936



homes Ereed with the peobless of weather conditions, these voting poless take them all in ERCO fluke separature is use like the real cheng ...

equipment, countries many valuable team-hours Let ERCO desire and production localities across you when the 806 cells fee. ELECTRONICS + ANALOG COMPUTERS + APRIOTINE APMANENT ALIBED MIGRLE COMPONENTS . COUNTERWEASURES . MACHINERY





Production of the Boreng KG115 stesslater for

elance for more different types of military sercents than any other mornfacturer. Electrosis





Visual Presentation of Messages Planned

Washi-Patterson AFR. Obse-This purty for votes of vocc consuming dent to be attention. If he are the very Ast Trace milets will start acritical

tions are meeted sub by street to bee" be will hear out vote consuming ovaluation of C & Nederland enters.

USAF Date Link . Provide Address Date Loui, cautino sets has caused constallier to "person D. L. Loue, reportedly the fact and

WADC's Consugnation and No.

*Less Change for Evan. Secures Data will have all record to my compromore

. Ground Reference Navigation, under for vest communications. If the odol: . Measurements Development, under

AYLATICH WEEK Assurt 6, 1816

FOR SAFFTY AND COST REDUCTION IN COMMERCIAL AND MILITARY AIRCRAFT OPERATION

trensports to eight engined, lang range let bembers, twelve lending Forces have selected Sim-



















PAN AMERICAN

will pre-fly its jet liners in electronic

SIMULATORS built by

CURTISS-WRIGHT

Electronic Subt Sevalutors built by Carner-Weeks now thousands

Sadfan Itd. Lander-Drack Hausen: Saditi d'Electrophes at d'Astanathres Paris







"LOUB MOUTH," are already high-power land-points

AUTOMATIC every faller naming drying

ment where it is difficult for the mist Other secont developments within

ur. VOR receive LE ONE devetion it defts down

. "Bir Manth," a hego, powedul sp-AVAITED WITH Asset 6 1996

. Asheese teletroe, a small help-USAF 2 ARC 22 or ARC 58 HF sets Declared in Klosechenet Life, Inc.

avaiding meand black-onts of HE com-*AN/ARC32 a complete responsable annual back oppositions

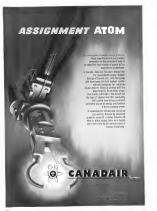
> defined newstree provinces are as in one test in one billion, for a curied of policy are of the natural suckestar of extensive flavour shorts

COMMUNICATIONS

The C & N Laboratory devotes a many other to an rocks. A carrow

untonged version of its AN/URC II, a

barne testigenice, espable of handking the atomic clock type of linguister or semantismate toughdown in ad-



Corp.'s APN71 is not such discharing dexec problem and assent recent Improved Antennes

A new auteurs complex descined

The design of high frequency (IIII)

KEARFOTT **SERIES R900 SYNCHROS** Have Everythi



CORROSION BESITANCE Stoletes stud housing, shefts, beerings

10W IN PRICE-MANIESATE DELIVERY





KEARFOTT COMPANY, INC., LITTLE FALLS, N. J.

AVAIDON MODE Annual 6, 1996

"free space" rooms...bv



makken una with scholaren lager schoolen may be recovered. Scholaring

Mobiles also produce Personnell "New Sepa" Revery is not your search community for each many M-M-Re other a complete forces and con-

special microwave absorbers





MOMILLAN INQUSTRIAL CORPORATION Econtrolle Annual Device, Messectuarity

Weapon Guidance

Wright Performs AFR, Ober-1344

. Flight control non under the new

· Sources Bondour, under Lt. Col.

AVIATION WEEK Assets 6, 1956

Missions Revised

· Newtone, under K. W. Ittchen.

puter, as extremely small, transitioned

tree, under descinament, mill monare

AVAIDON WITE Aspec 6 1706



Sand to Many

House hard-190 MC head-oldy or 3 db prints _A CHE SER ACTOR OF TRANSPORT WITH A BEST CAS Chapter 15 collections and 200 when beed

NEMS-CLARKE TIT JESUP BLAIR DELVE

For Artist schemetics sont Days No. 862

* AUTOMATIC FLIGHT SYSTEMS

* AIRCRAFT INSTRUMENTS

AND BATA COMPATIONS - MATERATIONAL COMPATIONS - FLIGHT, ENGINE AND MATERATION INSTRUMENTS
FILED GYES - GYES FLAT GHESS - FOLAR FATA" COMPASSS - SHALE FLATFORMS

* COMPONENTS

ETTES - LE METILIS SUPE METILIS S. - MACGAELS STATE METALISMES - PRINTED STATEMENT MACGAELS ST



You can do no better than to specify lichase Planer Division, Enables, Testeland, Mere Januay-Rosenan devolution of monacticular of these systems and product Let "by Reside" be your guide to day Sender, and the Sender S





ARMAMENT



Armament Center Puts 'Cutting Edge' on Airpawer





Planter has always been a problem with sirestift. Especially since transcoie speeds have been reached and nased. And Hendaille has solved it with the

frequency finiter damper program. As a result, most

self-contained, precuiou-hash la druphe mechanism. We will right help you make recyclion for a finter danger at the coveroft design steps. This plan offers much simpler and less costle metallation of a flotter damper is needed at a later date.





REVOLVER CANHONS 19-39 39-MM. (TOP), T-182 50-MM. Armswent Center:

Providing Airpower's 'Cutting Edge'

one pursue, raisana-testing new verpous. Since then it has been given the added task of sweethwithdeveloping the agreement that Gus. Joses Doolstik called "the cuttage This new government is truiced of AFAC's growth on the four and one

ANIATION WEEK, Assent 6, 2006.



MASTY I SAN POWER DEFENSE BOOKET

AIR FORCE ARMAMENT

DIF FERREX CENTRAL CHE CASE CASE CASE

DES WATCHEL DES PERSONS. COLMICANT RESIDENCE OF DISTRICT PRINTS

Mr Robert Crans.





TOW TARGETS THROTHS BADART SISTE AND DIS MAR'S FRANCISCE BARDY.

ment of, supervise and test all non-

Local Wer Concepts

. Printing most and softer of question fook permand of AGAC

In addition to the sun development

Boxxy, a Deput, Companies for Dea Dispeti Commandor for Fisters (Col.

Contributing precision-made cockpit enclosures to America's air arm The Course T-37 will belo to train knowledge of norther and mentilised prepared to take the complete proposability for your cockpit enclosure. program. Our forming, reading, edging,

facilities in our new, modern which we are

* ARMAMENT tree Berrick, a Boxict Search, a Borris

of Stiff for Lost Claustine has been

Die Bellette, Discretch, nes the St. Luis, D. Col Marco S. Lo.

tribles, recluding these for nuclear was - the energy one year ago brought line

was bounds surjets and you received . Which Boars, 1984; No. and APP. the first rear upon it may be upon at the reage in from the follows passe to soluban advisors force uncovered with the first and which is the first than a first than the first passes and industrial firsts, peaked as help.

freethal Systems Range, probably the perimeter—and later on which to look

Why Deputos has first allicone

rubber ennouv seal CHR Lee Argules A let of new dealers and produc-

Daugles brought this tefforoids con-

It would be inreven to shelf

coldifice it would inflore such the shift or hong up when the oscilat Coold a sécone rubber inflamble categor seed for market \$6 of rould no take a charge on this new design. They gave us the croke. We made deaten and this helped heng pay Strate rubber of stable concer-

salt, other strong robber information design stage for the Careury series, as



· Comband Fraction Rapid Col

empoundable for passiving cost ranger. Guil of Mircon," Lucrus and Egim EFFCOM SAMPLE LEGGECTS



In underwater ordnance, too

AMF has experience you can use







ARMAMENT

· Synthetic Rader Tieget Range This

Daniero Potential Barro. Correlo

Fuer Testing Missian

MINIATURE BELLOWS FOR INSTRUMENTS and AIRCRAFT

plate believe assembles . . . let Bridge-



Send on the Editoropet believe date charined below. (Burt PE-195) COMPANY



. ARMAMENT

Loboratory Equipment

a Device to remainte reals altritude term . Later other equipment will be added. with your behilder, where test stores are

flowfolder transferry C78 L and

. The "Nists" specialished 1.5 red-

. The T-132 moket gue, firmy short

 Brecher ogmoss. The 20 millionity. . Gather company. Production of the began at Scheroctals, N. Y. and r-disting to Burlington, Vt. Th. T.213

ADAMS-RITE now



ton-flight avallable



LOCKS - EATONS - MANDERS



Controls For Every Type Airplane Consult us as soon as you know your requirements or have your pretentinery specifications





COMPRESSION END SEALS -are practically indestructible!

E4 Congressor Erd Sesh are the not effective sesh annihile today for mistale components. Specially described today for mistale components. Specially described an experiment of the most critical modern application, they allow the highest degree of insemanty in short, and whench, while change in presence, despreading to the mistale of insemanty in short, and whench, while change in presence, despreading on the mistale of the

High performance E-1 Compression Type Times are also sensibilities multiple faculous, single lead and placeps connection. Values production as sensibilities to standard types offer two-way connecting the transless it possible to age-city the stand dependablely.

(3)

ELECTRICAL INDUSTRIES

WATER WIT And 5 700

of forces his from a that finite as considering annihilation of information and continuous models and information and continuous models are not because in the continuous contin

Booker Gan Advantages

Petres, mor Stepness; and longe intege to devoid intend at trickel genrestrong, for such it function the reis half with the proper bendup, o perman, loss the "pum boot" propil last laked it issue against pile reckel' own propillated the value has. With the transless dieter for reckel

Programmed' Rockets

rees. He riedet might cern is man subshied printing in incolumn ter arbitrary in the continuous terms and the results of the r

Men, Methods and Machines teamed for CONTROLLED WELDING at Lavelle

to tissue, the Greeners extracted. This arounded security of sections, the Greeners engine derived them shows a given the arrange of the Sometimes principles and the security of the section of the Sometimes of the Sometimes and the Sometime

Lavelle States Corporation and Corporation and

This illustrated brockure rives edibtrariel data on Lavelle

AYATIGN WEEK, August 6, 7556

William Applied -

SPECIAL APPLICATION AND CRITICAL STATS
 STYLEN: AND SUB-MEMORIANS DICOMPAS
 EGOX HIGH TRIVESSITER CLOSURES

PROTECTION PRODUCTS





Offers the first self-contained JET IGNITION SYSTEM



Reselve persults concerned the Benefit to come no with the last

Here is post another everagle of the slothly and versatility of



sporter problem.

e ARMAMENT

Aircreft 'Mission Tobles'





. . . .

Manual The Them Dy-Clark Flow Location

I. How the prostructs work and on







HOW TO GIVE NOISE THE SILENT TREATMENT

CEPTARDON: A reducence surfaced accumulate in techniq contray, attempting. Referent Laboratories in segment in these to associate communications with distinct team.

10 associated communications with distinct team.

10 associated segment and the segment of the

pressure, as a coleaning feature of flightness. Convenience Mercent polaries where it is desired counts kinagin land and of The a graphenel solvenment in the senses of emmercentations has studied as a contract of the passe solventies foot that or regard source food effect, which demonstrate that the CVP, TEK and AM commences that the CVP, TEK and AM commences the contract of the contract that the contract of the contract polaries conditions. The contract contract contract polaries conditions. The contract contract contract polaries conditions that contract contract polaries conditions. The contract contract polaries contract contract contract polaries conditions. The contract contract polaries conditions that contract contract polaries contract contract polaries contract contra Irms Crustermanismo. Administ Disconton Debnicosa in the YLF, ISP, VE THE regions... High Speed Servels as Irricosily Tracel Security; as makes a weaton Seed Sar migities objected in Debnic obligo. Performanies in medicanal engineering plectoral i months in the second origination of the perturbation of the performance of the per

o payabath in rapide deader. Pythinese and also in tendencial angionering allocations in respiration for the transfer for the Personal and Engineering Handless and Engineering

Andread of Subsect Contrary Copied on

scoting range feedings under character of Technical Support of ad month 200 commercial

what is name supple-generating agreement and approximate the material containing an elementation or give indicating and comparing that data, opening the magain in companies to the data, opening the magain in companies of the mostly to modification until name of stock. In amount, Major establishment and dark the containing or Winglet Autopoint Centre.

security. Major restallations are done by the creatization or all Weight Air Deobsessed Cleater. In the case of the Cochange of the County of the Co-Cal Harry B. Kinchenen, Jr., experts to take over most of the major madellafron net. AFAC has its fast partition obstures tracking active—a Nike radia—as the laws was easily made the necessary.

AFAC has six fast persistent electrome tracking extern—in Nike radio—as the base are, unbrigging the successive reaching the radio of the six and with region and higher track into and with region accuracy in matricold visibility conditions.

In the field of tox openment, the curtar is descripting or in-needing the

• As about the open second of what for plates the colors which changes or plates to compared to be public changes of the compared to plate the compared to plate the compared to plate the conductable reserve or good finance. A director to eliminate the forms of plates or A director to eliminate the forms of plates or A director to eliminate the forms of plates of the colors o

which men APS-12A experted for seal for several of suphring reiner, all formers are platform for guidely and the heap's the heap's the heap's the heap's and the heap's the heap's and the heap's formers of parts, the seal under excellences of parts, the seal under excellences of parts, the seal under excellences of a rear part agreement heapth are records.

trapt agrical halfwair models:

"A shapewhead tow being fire not queed, above Mark I. Thes integer conditions or dive East Court A number, leve, "Redilled" in book the coccondition in Much 9 second three AFVCS 185769. Choused and Counter Test December of December of the Counter of the Count



overal Stoper, Glandelle 4, Colffornia

byca at Eglas. B

ANUATION WITE, Aspect 6, 1956



STETTACH

BET, ELERADO, CALIFORNA
XXXXIV obligation, tendesond data and
EDAACH RELL

EDAACH RELL

Sievracin

DIV. SIM SIM

AFOSR Sponses Explerotion of New Scientific Areas
Brussels Office Links AFDC to European Scientists

EXPLORATORY RESEARCH





Scramble!

Steel Products Engineering

A familiar word is fast sequeries a new measure. Somewild . . . It recrements our createst sufercond around ground ground. To the correspon that manufacture our let absorbly another name now represents

KELSEY-HAYES

Eployothern Wheel Co., Deput 12, Nich. - Najar Sapplier to the Automative, Aviation and Agricultural Industries The Principle of Season and Lecture Medicana McCourses Position Season Colf - Wardow Colonia Control - Developers Invest (French E. Harde Fave Implement and Wheel Decision) . Springfield, Otto Lance Avenue, Berkente, and Assister Soul Decision)



SPIRE PULSE showed shock take at Cornell Administral Laborator, should evaluat the anniholous associate. Air Force Boosts Status of Research

querter have. The provinced is of Dr. L. W. Mader tolk no ensure mercanic of Foundation State University.

Prece today in the recremed aware non of the reed for each sounch of One of the most important results. of this as aways is what has been and to the Av Fonce Office of Sciratific

OSS, a bound or War d of the

DSR ha but plus orient to ONE rescale more me that I'm ANATION WEEK Aspect 6, 1556

correct and development work and the # OSE a forbure short of he many on the Bad office of all to consume over commend, the while more of USAF red ANDC as vertices to star about This charge is OSK's profession of South Revisi OSK is washing to *ARDCs major ofort to straighter a COSP a semestation and make to the



AIR FORCE OFFICE OF SCIENTIFIC RESEARCH COMMANDER MID SCIENCES DIRECTORANG OF MATERIEL EDENCES AFROMEO. POTICE DO

tests it in R&D, and Gue Power is still consist for that OSR's total

OSS and of 115, which will prov

mobbins and new ident" from Gen.

Li Ger Diagno S Power ARDC's

OSK's commender, Box, Gov. Hall

to shoot 115 in Fings) '57, impledes only

OSE's Threefeld Mission DSR v recover in Proceedings

· Recognize the implications and persi-

past "those has been a bug "IF and a budget requirement at SIS solves and mander for Operation, see OSR application of the operation of the op

COR is a sonice organization, dealers

GSK attends to sens as their line of

AVAIDON WEEK, August 6, 1956

OSTA resolution must racid, the

peuts serior military member,

Col. Dan. and OSS a contamb

The sultan serves was also to the hard research any home deed

Areas of USAF Interest

Sect. OSS erest rend, or they alread

Description & Divisions

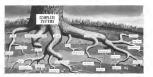
* Directorate of Accountried Sciences.

SYSTEMS CAPABILITY

-where to look for it!

For a victors work, at the discussion sings periodicity, you must be be point factors take of a quality. This were should be as company a pair and spring performance on the technique hight and results perturbated victor a points send calls upon makey. The mass beats must be as you at the design of which systems are comprised, the latter able you are to problem completed dependable systems.

5000 vaib in exceptionally lessed range of sechairal abilities.
Our 800 million was expected on conjuncting and research facethers as fixed 1903.
Twisty-four which hisperced insensitienting druman feeded on an in water triples. 20000.
The Bendy Sovience Plenning Sormy at herological conference on Devent conference, some restores with and given.



Becomes Bendis is more decady vected in all the things of which yet may me computed. Bendis is shallow in produce completely DEPENDABLE

Bendix offers exceptional capabilities in every phase of systems work

ANALYSIS * RESEARCH & DEVELOPMENT
 PROTOTIPE DESIGN & MANUFACTURE
 ENVIRONMENTAL & OPERATIONAL TISTS
 SINTEMS PRODUCTION * SEPPORT



OSR Comberton Durrents Durines Descharts of Plantal Science, with

Physics and Nach a Physics Decreases • Discolaute, of Maleral Severes, with Chaparter and Solid State Sciences Danageri

Communication Channels CNS accordant advances for pay

where of them. It accomplishes the conference of the policy of the conference of the conference

The Long-Range Future

John is a find-present theories made in the same from the transfer to reach the same from the

no at some seasons." Call of We do not believe di central ascalionals at each." In only of the shortage of on 3

WAYS YOUR COMPANY CAN BENEFIT using portable

IRD
vibration analyzers

No matter what your product or process, IRD vibration analyzing and portable behaseing equipment can help you make it better . . . and at leas

Handerds of reamefretures are utilizing IRD wheelste, analyzing organizate as a fundamental in those plant pregumes in atting profer production pretives, efficiency and quality on machine tools, monthly on profess and longer life on party, material biosers.

CHICKS MACHINIST OFISATION AND CONSTION — meaning prints able siterains and believe felanomes.

R

lyzers product

Became port cowing vibrotion.

DYNAMICALLY BALANCES, IN FIA







manual Reservoir Destruction at the same



Cutler-Hammer Hermetically Sealed Relay Family is Growing Steadily

The line of Cuthe-Hanner Hernetzelly Sealed Asserth Power Releas as one intensive development and records by Catlor-Hammer convicers in close on-

CONTROL Por REGIO CUTLER HAMMER, Inc., 1471 St. Perl Ave.,

Here is the record. 1922 Cylles Housest damped and issue: 1949 Carles Housest storted, director.

fortuned the first dir power relays your











Cutter-Hermer Power Belago-Fluest in Flight Cutler-Hawaser Hermetlosly Seeled Salays are desirred to meet Sinc Mil & scottl (A.S.O.) Operation of 50,000 flort. Clear A in an hunt tempera-ture to 71° C, withound ober from 13 to 500 cps



But CSR-eath its good need for "Top offer the uptated or expense

ficial DSR s son cost will best the

(see following intelle). If CSR No. 4. . OSR on he adestive among those Ally scading uses to Ecoupe periodic

AVIATION WITH Amor & 1956

EVERE FUEL METER



spedific gravity . . . so more computations to convert gallors into from tenk truck at feeling pit to plane directly is pounds . . . In one tim new motor inclutes perpasa fight planning. It also minimum It contains two measuring elements . . , a kighty necessar Neptune Red Soul volumetric meter, coupled with a sensitive Rovere Demi-Sauch the meter. The Gravimetric Noter gatamotically common change in type of fuel, renging from 5.4 to 7.4 younds per valles. Accurate to 0.5% of total delivery. Flow sonce is 220 to 2,300 point at density of 7.4 page 200 to 1,600 ppm at 5.4 pas. Other flow ranges ovariable, Meets ga-





OUT OF THIS WORLD

intheSATELLITE

Musdents of miles and in space a restat busin suct... and leak is optic and efections influenced begin tracking the first un Statelist as it in Heaches' into i Speeding with outer space is perhaps the most agreaus test at com-

Mindle, Sulfatore, prime contractor on Project Visiguard, has specified A MP Ten and Contractors for the Project secount of their passes dependiquity and encodity. Accord Atlanta products have been paragred

shood of the protect and street of the futur

A.AA D

AIRCRAFT-MARINE PRODUCTS, INC.

A MP of Sunote, Ltd., Toronto, Ganado & MP - Espland N.Y. 'n Herbegrobenin, Patrick House Maries Toronto IV. N. Landon Foliated



EVEN THIS IS TOO MUCH!

Plobles, bomber, framport er missile, leeleg's High fessessis and flanges. If you have a sealing problem why not ask as about the "O-Seel family."



FRANKLIN C. WOLFE CO.



a CAR mate whose and no source of world! The addition to the sessions of minone CSR has been making maladic to "Ment of the research of the lead in

Net of OSK) divorce work adu-

NEW FACILITY RESEARCH DEVELOPMENT AND TECHNICAL LIAISON

COCOA SEACH FORISE



High-Speed Impact



Brussels Office Links ARDC To Europe's Scientific Research

Breech, Scienze-Dix Estations Office of the Air Rescorb and Development Command is USAF's window on the Envirous acceptate could

A DUROPEAN OFFICE

the flowest codes from MEDC or other step at an art from to one

Tough Engineering Problem have you going around in circles?

How Research Pays Off

Raymone Office - Fast Director of States Service AROY 1943 menter at All Office of Separation ReLeave it to MAYER **ENGINEERING!**

Economica bandulari um our bur-

6412 Seats Maries Blvd.,



Herry of this new IBM built bomb offers approached apportunities to

. EUROPEAN OFFICE

Brusels office are nelected because of Who Does the Week

The distribution of European ARDC

. Notional research pertitation 16 res-* Individuals 5 per cent. USAF's research efforts were ex-

ARDC tune evolute every resolde science produce a greater powerstage Belgion one picked for its "very usmobied to the solitical areas." Gen-

the broad sense of ARDC's actained Holtad

es that a delire sport on respects in Exper goes magain two and a hold

How Scientists Repelit * ARDC feedful support often races he con medertake work he could not

AFATION WELK, Assurt 6, 1996

Is your present safety program BIG ENOUGH for tomorrow's airliners?

Compare your contracts, . . your passenger volume . . . goar cost and risks of doing business today with 15 years ago. And tencerous, the stakes will be even higher.

COMPARE YOUR INCREASE IN CAPITAL INVESTMENT AND RISK



Skadrel protects your ensitel inventment and learns your hability risks.





MONSANTO CHEMICAL COMPANY . ST. LOUIS MISSOURI



HUMAN FACTORS



Human Factors Experts Integrate Man and Machines AFFTRC Helps USAF Economics on Time and Talent



Herman Nelson delivers BTU's "PDQ"



neers in nacksned, portable heat, Herman Nelson earlweers know how to translate new laboratory thinking into If your problem is spot heat expuble of high maneuverability. Hermen Nelson is ready to assist you in finding a

practical, workship solution.



Mating Man To New Weapon Systems

Be George Christian Bultimeer-The Human Factors Di relacement Community Directorate of Development in fast becoming the "go, no-go" gage of the most vital The deleter's own present and of hareas engacemen, personnel

Teckling the Unknown

· Disease engagering. A raw con-ANATHON WEEK Asset 6 1956

. HUMAN FACTORS





E-6 PRE CONTROL SHIRLATON



HURRICANE SAME

is extendent the "state of the set" of mist except

leaguese from Sens, the man-like dument riding rocket sleds of Harrycane Meta. Diah, interestant answers in solving the

> Engineers designed, built and pourate Project SMART. the Superspein Military Air Research Track, for ARDC and

its Wright Air Development Center's Aircraft Laboratory. Look for COLEMAN designed and built systems and products at other ARDC centers becated at Felin Edwards Patrick, Rome and Tullahorna.

Placement Dear Aprile Council & Data Handline Systems & Burillons



that are recful to capacies, who raws

What methation cover a men to . Metastan, that repolar which makes

scens to be related to the secretary . Adaptaballo, a lettle lastes process cyclum to unfitten cauting without

ANIATION WITH ARREST & 1956.

to the breds no store. On the post,

Nuclear Systems Propert Office on terror

Predicting Schories

free setalog - Fra Airyolt Clote Note Sout Ad. WAKMANN WATCH CO., INC. andsoper of \$97A Section led applies to Army Hery, Air

a limbellineage, a quality for a back these n so what malifates recomment bury. Much used, in heing done to

ROSEMOUNT ENGINEERING CO.



creasing diversification in the application of rocket technology.

Box in early and Salvetters meeting and reversing apportunities. and for all tops of technical speciality in the research and development of exclusi power desires. Send complete reserve and solery care formerly to employment manager

PRIMARY AND AUXILIARY ROOMS FOR Manie Preserve and Scattering Alverty, Taxant Grauss, Codes nor Peckets, Einsten Jourems, Leunchion Devices,

Power & for Progress

REACTION MOTORS, INC. DENVILLE NEW JEBORY

HUMAN FACTORS

un diffract, but eller cares, sale-Urrest Freblem Aress

. Determining the shifts of a print to · Helping cogineon deeps to be cer-

Figh oldback bath round-the de-

The eye of the except publics

that Brown tolerwer bonts are finds

of learning spiciones to except in no mancher suggested that "weet" as nexuelt and second original-barbopers. the core is defeatd at a reversible w-

Another was of deferred as Toronto





Carja cessory	1000 calculate	<
Me-man speed	210 knom	
Miss dun truting remail	2000 reschool in late.	
Montenpera is amplified by o	epine werskrycein and major skylland	



HUMAN FACTORS

· Effect on reference Could recoten-











Need Special Motors?

In merturabel deter motors phable in service.

mericatum MILALSON (de) and out for long proper life. he will not preciouly all you



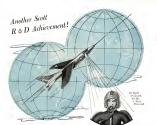
AIRBORNE ACCESSORIES CORPORATION

Brugned to comply with military design and produce it for you mickle.

DISEATORS . ROTORACS . TRIM TROLS . ROTORFETTS . AMELGEAS #



201010X



A Completely Integrated System of High Altitude Breathing & Survival Protection

in solin's high performance, supersonic colliney jet conside Whether is fittle or ejected, breeding protection is recommodily malatimed.

For the shape of things to come, keep on eye on Scott R in D1

SCOTT AVIATION CORP.

NOW PEADY from how were loven responsive of

* HUMAN FACTORS cos or froming operators to locach or

Yet if the dis cowes when the

Training Advances Norded

· Complete museus namabasa, suchel-· Synthetical trainer community which

. Vecest observer field significant

· Beech species autom to the Street

in the fetter, ARDC and USAF con-





SPOOL TYPE HARNESS REEL

HE are the send solvened design to personnel procurace—the Pariety HE-IP Shoulder Horseys Red! Breed on the name processed of Mode to the revolute recomment weight, the HK-40 woulds each 20 course.

Ameriner

AVIATION WHE Asset 6 1996





Lackland Improves Use of Manpower

Lackland AFB. Tex-The present resource with which the Air Force. United. States are without through Proposed and Transport Research Coater deals of General honors, rather than . Determining personnel recollections "There are no rappless and rate in this cutift. We do all our warsonly with officers and urmen, "Col. Herbert N. Carales, communities sold

Wide Network of Offices

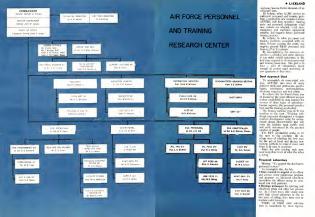
AFB and the Mantenney Laboratory Col. Herbert H. Cooles, Communico, Air Seutlann Dragen College . . . attacked

less . . receive more 1975, control



· haponing turning methods and do

A cook strenger of MITTEC's









A Minters vactories of the under score's of today's ment film, it has difficulty

APIATION WESE Arrest 6, 1956





. Determention of emergence proce-

· Efficient learning conditions. This re-

ANATION WEEK, Asset 6, 1996

QUALITY MAGNESHIM CASTINGS



... for the Aircraft Industry!

ORDINARY AND EXTRAORDINARY

PERMANENT MOLD CASTINGS

PLASTER CASTINGS

too weer true everyo. Don our narely you with our

rigidly metable four standards and specificalisms,

THE DOW CHEMICAL COMPANY







than a decade. Accords desirates, earneses and pilots affileabove resent that confidence with Performance PLUS?



* LACKLAND

Social Science Progress

ENGINEERS. Plantuouia & Machanian!



Choose your location when you join Melpar

Ninte for recognite information, asheating congraphical perfectors. Qualified conditions will be invited to with



* AFROMEDICINE

DRESSED TO LEAP from a believe 15 miles

Aeromedicine Reinforces

By Rossell Burkey Week, slow and refractable to cover, man still is a vital part of orw Dis Acro Mohest Enhouston, at Wards Air Development Center,

Awde from its own laws varyings of ... One of the Life's responsibilities is for





Frail Man

strength remaint the reprint of . Greckband, builts sport base constitution of country constitution AYEKTION WEEK, Award 6, 1996



AFROMEDICINE







LT COL JOHN P STAPP, that of Acre Medical Field Labourous

SIERRA PRODUCTS INSURE PU OT SURVIVAL

"Birran Ears" 2 and her family of anthroporoughs; and Stepra Model 210 Oxygen Masic, With one valve, compensated

123 E. Montacito, Sierra Madre, California



position are to much merced and interacting speed, saids rigual, size speed consisting of 2,000 feet per Desgreeg a present wat it a difficult

sufel control braction durant the

Science, Tumbling, Jesting Beywere speech of Mach 6 and

ASPONEDICINE

nested to come your difficulty on other propers. The \$300 ft track has a CHICART CAMBLE BOTATES AT PLOT'S EYE LEVEL TO LOCATE SINGLE-EYE BURND SPOTS.



ENGINEERS:

If you can do original work

John Regains University Applied Papura Leberstory Appeal teleptic report APL m

The Johns Hopkins University Arrelard Physics Laboratory 5015 George Avenue.

our at speak that may be as leads to The upin can be simulated at WADC on a tourble nearble of

AEROMEDICINE

contribute at WADC is comble of noopphissons with a high local

The Human Equation In the fold of prochelop, the Ann

les costed mercennets. Sech metro-

egon (too) Aside from the black-out

tops of reciding this a usual beats. The life is assisted method and

A privage decligencet pouret is meler way which USAF beact mill

producing, delicult to cool cocknet bebble recourt for visibles on

recentation. The corners has seen

spots in a motive rather than a graphia circless the effect of high G-leads

New Clother and Food

Arademy to AEC (Alarme Budgets As part of ARDC's Asynch Nucleus Propelled Program (ANPF), the lab of

random secret being what it is, a

MAJOR AIRLINES use





LISLEMMagnetic CHIP DETECTORS Major sirlines use Lide Margetta Chia Detectors to disclose internal defects



nerie Chin Descene installed in the oil to determine whether or not any ferrous rengaçõe poles. This is a positive test which may be made gainly without rereceipt either the contint or the serve plus. Gives advance warning of danger-





THE HUMAN COMPONENT

mayidine practical solutions to the system industry is MAN-SPACE-EQUIPMENT comparibility

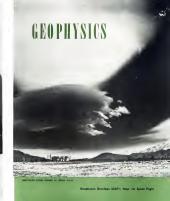
* Flots Chard Scient * As Tolks Count * Proposer Tolks Flow * *



DURTNEY AND COMPANY 1711 Makes Street a State Street











Saraino Three Air Essess

THREE OF TWENTY-SIX SERIES connects cannon CANNON PLUGG



ARRORGE HE ENVITED HATRIC COORS GLOUD WHICH GLOWED ON RELEASE OF STORES SOLAR EMERGY GRD and the Contractor

CRID's notices done at Combridge Whengh sockets ero mask higher of

rection finder. The referentian named . For somewhat lower altitudes, two-

proce that player the rot of son- form releved numbercook solute development of the return Acades

AVAZION WEEK, Aspet 6, 1956

· One of these is DAN (Descou-And sarged to be fired from a fighter in a North all of CRD's molet length

Processes abortor non autico. CURVED CLOUD RANGE DANS that chaptering death from it between





EAGAR SCOPE shows him all power stress over the New England roce.





Marain for Error . . . None!

Nignal Officer flegs rog to ext your power-road yearly about? It book skill and infactor. The heuroge is modern by turbure, for motorer, must be held to int turbage manufacturers sportly flower armount beautings first. Their executional restone speeds and transportance—that would the reservoirs, receds of tacks in surgal rules heating for every field of transportation and industry,



PEDERAL-HOGHL-FOWER SEARINGS, INC . DETROIT 14, AUCKIGAN

BOWER

* GEOPHYSICS

Sperry's Measuring System

Acr CRD contract or 1954. Discharge

ATTATION WEEK Amort 6, 1956

5.5 White flexible shales offer unusual opporeasities to conserve space and weight. They're

Worth considering to solve space and weight problems



and state conditions. They can be easily up stalled in consecuted areas and can be man around turns and over, under or through frames and other obstructions Our engageers are always available for help in working our your applications

Balletin 5501 offers full rechalost de



5.9 WHITE DEVERTING COVERING DEPT. V. ID SART 400. ST. HEW YORK 16.6/V



how

to get clear, accurate mechanical Thinking

in functions virtually unlimited in scope



KOLLSMAN Air Data Computers you available in systems such as the following:

As the Cerued Practice ISPS State Process Servicing			Temperature and Municity True Anapool and Mack Rumber, C19			
He sujusts of such computers, escounders better than 2% of an exercised functions of the fel		Two Right of Attack Assolute Pressure	Soutolest Arrayed True Arrayed Main Roads	Rabbins for Bending This Abbods Rabbins		



se se sen una compart services - copient convenient - copiente es Standard per resenten de sea



May Explain Crashes

and assentated by GRD. Three sets of handing approaches to proofs in the

· Cloud height, at which statute var-Project Great Plains

Meditying the Weather





As proprietable specializing in the







now pakent appropriate negati raght. CBD have produced techniques which





Series of Studies



WHIT becomes reconferent on.

GEOPHYSICS

GARRI cround alter any horse.

versited that rectored due new serve in much. Depart the lack of

GBD has ready a first stop toward

cully in the upper atmosphere. After AVAILABLE WITH Asset 6 1856.

... to meet aviation hose requirements Cherelcel Resistant Contrates of Mich Tarrassitures or Processes

by jet regard persufacturers. We endurant there

spinster funds. F you are make projective with already with more tody you that the right proper is your existing here gratians, type Number Section exterior best with an inner care of To Peri tedantal for the

FLEXIBLE HOSE Firest and new Decease on Yarfey facility have with on

Titefle



for your COMPLETE

requirements in "standards"...

Full range of sizes . . .

most items IN STOCK

Did you know ... 7 Increasing demand for Conner conducts has formed us to expand plant capacity by 75%. New-your LARGEST source of investory stacks Special fasteners

SUS WORT CONTROL OF A LOSS ARRESTS OF CALLS

from models at extreme alternal

N M CRD successive belong their Ounce Concentration

persister, and a number neether, CRD Balatice of Great GRO will co-

EVILLENCY WEEK, Asset 6, 1956

Mercamed's research senter is feet becausing one of this security's crop tive engineering copilo's. Unlimited apportunities of You Nava enattracting many Research and Development engineers to Morquards White for electric PROFESSIONAL PRESONNE 16555 Spicor Street, Ven Navy, California THE WINTS LARGEST ACT CASING ACCESSES AND ACTUALISMENT CONTECT.

FRONTIERS BOMARC POWERPI ANT NEW CODEN FACILITIES NATION'S

Trailblazers

WITH

MARQUARDT DDEAKS NEW

DEFENSE



- · Address returned detection proteins for religious use





GEORHYSICS

frenches greekeally on a PPI scope

match 10 motors no record. Volcomes

sulker techniques, an comparable seconder with a transporter which

work in heatment frequenting and Electric Force Fields One of the first essentish is an im-

CRD is tracking threader-teens with

AVIATION WEEK Armed 6, 1896

world, baseleting 15 degrees to order gate frequency and under frequency for reference to tennes and signific Other President

manuscal but CRD coppets below

ELECTRODYNAMICS Arnounces the first TRANSISTORIZED TELEMETER HAIT in an operational

nissile

Experience Counts

field of Instrumentation

. Menthographic Sob Cowier Continues





A Director of Circled Greekening Cornerspies. 1200 South Microrea Avenue: a Pusasene, Cattionele

The Directoris has a "Stone" obser. Research . Development . Testing . Manufacturing

FASTENED DOORLEM.



Pinning costs for precision differentials reduced 25%



Chose tener rise for assembly of their these pressure differson Gorp. Tool east, for escapie, was high because typer PIC replaced toper pice with Bollpin in all assemblies and

---- MAK THIS COUPON FOR DESIGN INFORMATION Heat's Stee Hat Corneration of America, Drest Sec-125

Sen Sen

GEOPHYSICS

Conden. The freez and direction of

. Optical flight phonony. CRD to nowarbon with the Coal, Research ge a technology called "4D flight plansent to separat coordination of my

+ Severe storm program The Director

a Section trafficability recourses. The market by

. Statistical fearmening. Local forestaof the costs of court martition of conterm of probability Allah altitude road measurement

D' as a mercar of more work. The rade made. GMR screens before the



SOUTH HACKENSACK, NEW JERSEY

TEAMWORK IN TELEMETRY!

USAF - WADC -TDI

AN/AKT-7 and AN/UKR-2 Miniature Telemetering System

> His designation and description closed control with the All-Diana Weight for Conference Control, the section 12. Control Weight for Conference Control registered to All-Daline Conference Control registered to All-Daline Conference Conference Conference spitting of the Conference Conference Conference spitting of the Conference Conference Conference spitting of the Conference Conference Conference Conference (Conference Conference Confe

See us at WESCON, Booth 617

Hissile Great Excitosic Agents Fectivals Oxidance Systems Systems

TELE-DYNAMICS INC.

32nd and Walnut Streets, Philadelphia 4, Pa.

TECHNICAL FIELDS OF INTEREST

ARE RESPARCH AND DEVELOPMENT COMMAND

and Berchgon of Lourness of an incord reddering a mixty 30 in human for a mixty in the man of the condition of the condition

been sed resear, been in the proper ARDC manax, Van. Contracted Deletions Resear less roots on prosed with consequences, to be all strongs, and has been.

If you're required due no research or it is reported with the complete the contract of the contract of the complete the force II past company has not on results information, making the past your force on complete the contract of the complete the great your force for exceptible the less that the past you for the past you for not complete the less that the past you for the past you for not complete the less than the past your emergent, ARDC or tractions White is say him to be past your emergent, ARDC or tractions White is say him.

Service of the control of the contro

See The Control of Con

Proof. And that of Translations and Delegation States of the Constitution of the Const

Art for Establish and Operand Study and Personal Study and September 19 to the September 19 to 1

the last test than the transport and

225

SINNE SAMPSTOTH TOUTHER									
Milyladini Addition Sidemation Reals, with Addition of September Engagement September Engagement September Engagement	Result Comments of Education State Part Comments Despite Print Late	Combine Medigary Vill State Photos Scott and Medicals Street		RESEARCH AND DEVELOPMENT SOURCE INFORMATION					
Second Purples Martines Second Purples Martines Second Purples Parties Second S		BURNING AND MANAGEMENT				JUNE INTO			
Tracks	Region Congression State Assets	Modelin	THE R	ME OF CONTRACTOR	STREET AGOMEN		01	BAC STATE	
COTTO MODELIT	Parall Apreliati	American Assembly and Publishers From Street and Publisher Stational							
Sundanese and Relation	Depth Server	Quality Control							
Section and Control Manufact and Locations Projection	Spingarthi Al D. Spingarthi Change Stippe Cornel Opping Federation		-	HE OF PERSON TO CONTACT AT ADME. OF	EC.				
Franchise Works and Filter	BY Engineer	Markagos prates	100						
BURLING OR CHIPMON	Tentrology September		-	OF RESIDENCE OF STREET	PORATION PROFESSY		TO THE REAL PROPERTY AND		
to Confirme and Believes in Security		not first to end tot Solder Share	1.7	Program Seminaria	ANTONOS PROPRIET	Ca.			
An Confidence and Millered in Econocit An Coninc Street Service Conjunction Service Services Service Services S	Copin Roses Indicator	Faure		MENT ORDERS AND THE PARTY OF	ANTHERSE P	_			
(anyweine Engineer			1.0	CONTROL STATE OF THE STATE OF T			NUMBER O	PERPLOYEES	
Spirite Minerality	Conference Describes Sector 2 Asset	PERSONAL AND PARTY DECEMBER OF				141.47		RESEARCH S	SCHEET STD
Solice Ages Apparent Males Apparent Males		San reed Realisters Introduct Personny Plantened Realisters							
Billion Victor	Spri Housest San Advers	Phonback Tackbox				DEVELOPME	NT DISEASED	OTHER TEE	A PERSONNEL
Rend Con	Cann Asheron	Federiches Intel Perhings							
fondamiene School Unfelheum	Sales Interest		**	OF EF BEAREN PEPRENTATION	STREET SOMESE.	6-77 AND STA	14	TELEFAIRE	www.ca
Friday Michigan		Description of the Control of the Co	- 1		1				
Rajin and Anatomore Carliford National Street, Valuations Street,	Curied Harris	Clamps and Estady's Departure And that Colleges			1				
	Printed Broker	here shape.			1				
MATERIAL DOS WINALLO		Annual Sept Collection Annual Sept prescript Annual Sept prescri	- 1		1				
Affectives and Septimes	Productived Indicated: Say Mari Sange May Informed Landing Sales Say Sport People Stiff Follows Sarred Lan- red Sange Sales (Sarred Sarred Sales) Sales Sales (Sarred Sarred Sales)	Antellin Splymett	-		-				
Byte make Philips	he's Burt People High Definition Street Jun-			These below oil resistances listed in Los	of AREC Technology Evals	ed Determine to	which was here	e experience of	not be which
Switzer time Serbles undergrade	Welliam Late Carried Accordings have	DESCRIPTION OF PERSONS SERVICES	,	on design to purifying in the AU Perce Fie	newship and Development Per	appear, understa	ny the appropri	out+ indonnessis	in in the lost
Marriage and Materials First and Associate	Service Mercanium Systems	Adminish to and Property.	1.0	edumen.					
Nadon Rober and Chairman	Street Mercetter Sphere Depotest on Awar of Select Makes Supel Sphere Colonial and San	School Special School Memois Fair Sch	- 1	If no present or oust exercises, above to	signed in and Present Core	OGRES For wear	on theid for or	desira I to codu	erro D.
	Oracle Supil indicate Colonial and the Oracle Friender Spotomed indexes Reporty Oracle Seatoned	Party Set Secularities							
AUMENTAL SE	substant frequency Orbits Sewhymod			Order such section listing, all a develop per do not list a section directly applicable				unes. Pivare	Die Speciality.
for Billeton		Suph of Assessing and Common of Parish	1.5	rpe of work under these. If poststend esec-	is required, porchase on o	nearth theel			
WHOP ISSESS	AND DESIGN AND MAKE CHARGEST AND DESIGNATION A	Street Street							
Append SOMESS	Abini Brahme Barkes Assirant Barkes Samuelan Barkes and Francis Assirants Samuelan Barkes Barkes Spinishina		_						
	Mild and Mily	health Cheers and Saurity				PRINE CO.	AIR PERCE.	PRIMARY	DEVATOR-
Santa	Rooms and Fried's Addresses	Neithbo Crispins and Sparsies Sociate and Regist Analysis William and Prince Dylania (Compile Manuscope		FIGUR OF SKIDS	157				
Meter specials	Military Replications	July Board		(Réversity for Number on	f Table	TRACTORS	CONTRACT	INTEREST	PRODUCTION
Samply Symmetry and Dendelfors Adultur Specialists Modified September and Equipment Registron		Note the copy (see September and Properties)				Oter F ra &	N at 60	(New Far II)	(Dhay A, A,
	PRODUCT PROPERTIES					٠.			
		From January Project Separates - Sendon, Single		7/1	.E			-	-
Science Persons Vaccinety Persons Vaccinety April 19 (19)	Cortes	No. Dational							
		NOT Not Received							
MCSAL MSY		Fagil Indicated						1	
Street, Street,	Delice Control	Et Platting							
Middle and Pulliness Switchers Interdings Switchers and Essening Alleys Aged Switchers alleys San and Alleys Light Montes and Alleys Light Montes and Alleys	TERROR.	See Section Control of	- 1				1		
		No limited and Depletores. Most and Walter sample				_			
MINISTER SCHOOLS AND SPECIFIC	Arrest Cox								1
Dublin Indicate Server	School Con Amend Con School Con Trible Trible School and Contral	SEPS AND MARKET ELEMENTS							+
Mariana Mariana	Sort Springs and Contral	Daving Castal							
Section Section Section 1	For Cotton and learning Systems Cophishers and Mark Higgs Fire Cotton and Furthing Systems	Demog Cartal New Contemporary Non-Recognition Internalists							-
facts front my and Regulary									
Diving and this will be a set of the control of the	Nostin and Nagari Probable Page: Codelly page .	School Conferences	-			-	-		_
Properties became focus pages, force	Solida and Lauritan	Wythorsoft y Stother				1			
Secondaries and reproduction—Reports Flor-	Solicities Calenda	MON COMMIT	-			-			
Denovino Day Dele la Proposità Pero-	PROPERTY AND TRANSPORT								
laung.		Advanced and Great Street Street							
	Interior Science	COMPANY OF STREET STREET							
Spiriture Personal States	Notes Indicated the Association State of State o	Strikery Low Managements				1	1	1	
Delay Armini	billion to any set label outlier							-	
Septiment Personal Sector Sect	DESCRIPTION AND MERCHANISMS	Sal Your Securities And Long-year of Televisian State					1	1	1
	PROCESSORY AND SPIKE SOMEOWINE	Language, and Talentara				-		-	
Street, and Basics	Connect Propose Selections and Sectional Victorians Associated Proposed Selections	Rifts at					1	1	
APPRAISE CONTRACTOR	Montagen Account to Annual Laborate		_ I			-	_		-
Collect of Management Annual Principles Statement Statem	and opposite the same of the s	Totalprista/sin	- 1				1	1	
Dalling Street in	PMORE	Ar Businessian	1 -			-	-	_	
Start Berger Ripordic in Scriptor Shart Berger Phager MRD2 and De James Leng Berger May make Scriptors Modure Senter College and Statement	toute	Ad benyeddor Nor Turometer	2.1				1	1	
Sodor Sens Coder and Sydney	Richards Departments Electricity and Magnetics	Cost need no Pres 289							
				SATION WEEK, Assets 6, 1996					387
386		ANATHON WILK Argust 6, 1926		FIRST MEDIC ANGINE IS THAT					***

SUPPLEMENTAL SOURCE INFORMATION

Signify on a coperate them of pages or in the speci fading the I Horen and keet Measurbled standard of such of business C Represent

C Rooks or powers published

A facilities

portion to crossed and dresignment adults. Industry whether

Return from and ordendest information to companions ANDS

A bird shoughter of laboratory equipment and who feelified many





- to reduce your development time and costs on every pre-production runi



for Accords Forming and Drawing of Statistics Stati, Incoret, Cald Solid State Stati, Alexandra, Copean, Songs and Other Allery

FASTER SET-UP

C. B. KAUPP & SONS







ARC's new ADF weighs less than 20 lbs!



ease 80 or more poweds and make room for other must-The ADF is sell the Number Dire worldwide savigational Here is reliability you can trust-in a small package... 4.3 No. Soop House, 0.3 Hor comm per 1.8 No. Indexes, 1.3 No. Fower Bill, 5.2 No.



ircraft Radio Corporation soonton, NEW JERSEY

ARDC Lieison Offices

The office advantaged from ARDC

and Carried by total

Absolve 1000 Se 31297





FASTENERS











OPERTION & MADE

NEW YORK

A National Organization of Creative Services . . .

INDUSTRY IN THE PLANNING AND PRODUC TION OF ALL TYPES OF VISUAL PROGRAMS

OUT SERVICES INCLUDE MAINTINUMET CARGO

CHASS GAMES

TEMANG TEMANS MOTION PICTURES WILDING PICTURE PRODUCTIONS, INC.

PHTERANGE CLEVELAND CINCINNATI April Machington 7 3900

ANATION WHEE Algor 6, 1956



METANEL Deploins Studens over an air 200 erature Insulation

FREE NEW CHART!

ATTCO Neles The Aviation

DEEDRO

H. I. THOMPSON FIBER GLASS CO. 1732 Cordova Street - Los Apreles 7. California NAME OF THE PARTY NAME OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PARTY ADDRESS

Rigubile 3-9161



NOW, by NAPPCO's advanced new chemical milline process aleminum and plannesium may be etched selectively to a death of 36" with a tolerance of = 005 or better. No special machine tools or dies required. The process is entirely chemical and breams no mechanical anchining is required, production on pry-formed or contoured parts is as sinsple and inexpensive as on flat stock.

Call your nearest NAPPCO office for complete technical data on NAPPCO's chemical milling process and discover how much it will help you to improve quality, speed production, and cut costs, NAPPCO CHEMICAL MILLING



NATIONAL PLATING & PROCESSING CO. Muneral Cos. Colifornia Schalter Girdley 74971

Les Augeles J. Cellinole Debalton: Higgshit: 4-1945 MS Acade Across los Acade 31 California

Licensed by Turen Products, Inc. CHEMICAL MILLING . HIGH-TEMPERATURE CERANIC COATINGS . ELECTRO-FILMUNG . ELECTROLESS MICKE. DEMOCRICING . SUCCOMPARISMENT EASING . HARD CHRONG PLATING . SILVER AND GOLD PLATING Contractors to ARRE

A S C food Systemati Co., 550 Feb. doc: Nov. Appropriate Co. Self Prince In. White

tion belowing for 1985 \$50 \$50. Jumps

Anton Mallyroph Corp., 111 E. Teled St. Door Reddon Foderic Cop., 1097 No. Own Select Colf. Modeal Perform Co. Chrysland Clric Migras allo Co. 1963 E. All et St. Releva Mark Secretary Salter Sale Secre

Assessed Africa Corp. 1763 Commentered Bill 16 della Street Chin. Associated Great F C Sea HIP Revisit Relatedor. Annuary Cols. 200 5 East Area, Joshum, Mick Annuary Lock Co., 2003 Selection Are. Clubs and Otto. Arminam Cop. Bodon, Con. Armina Cop. NO fellends Ass., N. Sarbad

 CONTRACTORS All Dallers St., Hannagh County Alone Bal An Andreit bei F O Res All Allestone An An Andreite School of the St. Stee Peri

Alternative Industry 100 Oct County St. month for the control of the second Art. 100 to Sec

Make Green Inc. 175 Well St. Nov Yell. N. T. Stelland Debuglish builting didners, Alle Stellands Stelland Albahar Inc. Co. 1999 Obtavo Sci. Carden-Albahary Latium Davi Corp., 2001 Dilme Bids

Do you think about Angular Acceleration?

and uses Matham Angular Acceleremeters







ENGINEERS ... are You an averaged freshman?

. ARROGASTICITY AND FUTURE-Miren's Department Head MACareers are Successful Careerel

. BONALMACK ... Multimenton Streets and monday! .. . RIGHT TEST SINGINGS PRO-Server Flacks Test and Sensor · ERLANATTY RNOWHER NO



Noteper Co., 202 Antoine Red., Annual Motors Co., 1983 Communesolit Ave.

Acco. Assert Cr., 1969 Inform Are. Dated Mich. Assertion Operation Co., 14 Naubouts St. Sauthbooks Amount Standin Corp., 1809 S. St. Ave., Chinase

Ann on from he Gr. NS Good Ave. Hilys

Anglie Cop of Angle, 396 Storbers, Nov.

Andre Crep. 128 Covernors for Supers Stone Andre Co., 8289 Subgraph Std. Ion Angeles Colfe Asserte Stanton Co. 48 Mars. 51, Angeles Con-Address Stanton Co., 707 Stanton Lana Subgraph Address Stanton Co., 707 Stanton Lana Subgraph

And have their the law has been it in

1000 Carry St. Stray

CONTRACTORS



It's one thing to pendage a bresh week

Not in Makedition perfere ducking or observer





TION SECURISTS . . . and dispute of carbon-graphic specialism AVAILAND WEEK, Assure 6, 1956



You save considerable time, trouble, and expense when Scott invest-

Transie, because this division of Rolle is canable of takons the entire Expense, because Scott takes a direct approach to every casting probiem, eliminating false starts and waste. Scott's prioriest wars of actual casting delier. Further, as a Division of Rolle Manufacturing Company, Scott can after you the most complete inhoratory test and quality control

WRITE NOW for complete information on Scott's facilities for in-SCOTT

Lanedale, Pa.

e CONTRACTORS

Algebra Parity, Phys. Co., 179,3 Horbert Mod.,

Appelled Strategic for 10 11 Northern Elect. Month

Extract Pitters Co. 157 E. et St. Marc Nach St. T. Store Millarder 1575 Str. St. Oakland Extl. Store Marcago 15 Street, M. Orcholas

Enforcement Into the Person Set Breeden, N. J. J. J. Stallandon Co., NO Son 338 Voleto Teo. Solid Stalland Melly Belly Fo.

ANATION WEEK Asset 6, 1596



at Hughes NEW HORIZONS IN DATA PROCESSING

DOVCLOPMENTAL MATTER

MICHARICAL ENGINEERIS

LEWIS

alreraft electrical cable



TO MIL-C-25038

TOR NATURE LINES, TOPE 362 STAINLES SENTE MANO FOR THE PROTECTION (PROTECTION CONTROL OF THE PROTECTION CO

For permanent installations specify LEWIS
MIL thermocouple wire in accordance with
COPPER-CONSTANTAN
CHROMEL-ALUMEL
LEON-CONSTANTAN

IN ALL GLASSES AND TYPES FROM DAM OWN WINE MILL. WEITE FOR CATALOG

the LEWIS ENGINEERING COMPANY

have you Edge Lighting Problems? To assaulthed drups fashing at it below to be to below. We are more than to the best below. We are more to a see! seepaid making soons, optimal by to be and below you do not below and below you will be seen to be to be to be to be and to be compact, tend only quick good fail.



The Indicate regiments staff of the Unionial State Reliand Emportation was unable association Emportation will unable association Deposition with unable association of the Control of the

CONTRACTORS

L. T. Singer, C. Tell Street, B. Minneau, S. Minneau,

College of Control of College of Control of College of Control of College of Control of College of

word Gall of S Sandi All I Novae It Spream N Y Sealer Com Schools St Sander St

n Mile Co., 185 Street St., Arreston



Tiny gas turbine provides vital power for giant air freighter

further-for varied applications.

Solve-a company with 30 years of

MAR of ACMINARIES depend on Solte Mars ages traches as a vest lavelary power source. Buffi little an airborn gracestor. We Mars proceeds power to operate eargy wireless, camps, lights, creptus virulers and other equipment Specialed on the Douglas Cliffs, the Mars was in allo used and the Lockborn Cliffs, and the Booking Koff.

Nishing surpress and success tracks.

Southern, Sentence and Manufacturers - San Tables - Alrendi

SOLAR



Now! ... the NEW RORINSON WIRE WITH DIAGONAL

-termonty (re. \$29.50)

6"---- bend web --- \$20.50

RALPH C. ROBINSON CO.

AEROTEST

QUALIFY Complete Southennessed

PAST

end Qualification Testing

amene

to Military Specifications

COMPRESSIONAL PROPERTY.

ENDORSE TO STATE OF THE PERSONNELLE

THE PACEFUE

LABORATORIES INC

Midney and ago 1-7272

CONTRACTORS



from hypothes for 20 Hunt St. Daylor, State

Sinh has Co. Service Mile Calif.

Coll Subtree Marris Co. Godden Blod. St. Real. Marr. N. Singles Co. CER Streets St. Tribute Glea. String Statemb. Development Orientering, 454 William Ave. Worlds, N. S.

OCCUPATION THE WITH



Aircraft Structures

Instrumentation

JPPLY HOW TO FRE

SUBMIT RESUME AR MA ROIGHT STEWART PHONE FOR APPOINTMENT

CADUCACUE CUMBVANA TONKONKOWA 1.1.N. Y

AVIATION WEEK Assur 6, 1956

Repair less Co., 1813 Springfall St. Bryon. Ditte Repair Britis Co. Mil Springfall St. Freque Ditte William C. Sale. St. No. Bell., Abstraces.

1956 E.S. 1549 Apr., Purifical City, San Jan., SEE Streetway, New York, toda idio de nom e non o reconocioni

C. S. J. Scharmerine by . Mr. Lauber St. Store

Total Confilm Barba Co. New York N. F. Colone See 200 French Star, Nephroph Pa Colodone Co. 128 Comp B. Wilsshama Nove Colodone Co. 128 Comp B. Wilsshama

Rose of Corp. 200 Ball St. See

J. A. Dellemon Dell S. Hinner Occupy of Combining Comp. 2 Installand Plans, Joseph Stern Combining Inc., Name Co., Name C

Tork M Y.

Content Sec. 22 & Die St. Ward, de, M. F.

Content Senjament Cr. 1600 Secretary, May York

Grand Street Co. 2009 Standards St., San

Front S Course Connect Oils Comps Cow. 200 Septemb End. Vo. Nov.

for long to the way Au-

REVISED CATALOGUE of METAL

China II Carte State N 10 N No.

Could be Abon Co., 175 N. Admed St. Belles Box

HYDRAULIC CLOSURES for AIRCRAFT Tubers Beal Osc. Inc. manufactures metal protention closures for handfore, thingens and stor-

CONTRACTORS

Correct management for 19854 Phononel St. Vis.

Punk Estructu & Sone # D S. Bross N. T. Casson Annual: Cr. 2 F 5 pd Water Son. Champion Specia ring 460 Upter Aur., Tabelo.

age of aircent's hydreallo lines and assemblies.



A O Contact, If White to Patently Com-			
Children From Co., ASIS N. Mindrell, Gloridanic, Otto.			\leq
6 G. Colley Dr., Anabalou M. Barolsia Au-			
	Tunne ares as		
Correge restation of Westingers, 16th & P 800; Michaeles D. C. Westingers, 16th & P 800;	TUBING SEAL CAP, INC.	HANCE	
Street Ope Co. 1809 N Calcable Dr.	FOR W. State Auto. Eng Gabriel, Cultif.	PRESTOR	
Corner Corp. 800 S Gestion St., Spreamag, N. 9 J. C. Corbo Co. Contr. Many, Calif.	Proper After		
Code Schementers SER Public Stef Panadam,	425 New Course \$144.	OSMPANY	
	Deltock 2, Michigan	573EST	
Ore hallots of Saderbury 1886 Earlie St., Oreshoot, Olive	The next of the residual reading		
Orders Budge Modern has day	March of the safes	OZTY	STATE

Cold. ANIATION WITH Asset 6 1856

to Heaters han Acre 69 Belliges Aus NE, Voch

FLIGHT REFUELING, INC. OFFERS.



A COMPLETE FUEL SYSTEM SERVICE DESIGN. ENGINEERING TEST. MANUFACTURE . INSTALLATION .. FIELD SERVICE

Flight Refuelling, Inc. moles available to the uthorage of amounts fuel evanues. This scient is menufactures to bondle complete system destem, to see fuel system or design and fabricomplete nortal refuciency packages so bright elineer and vertical valves, conflors and other parts. If you have a problem to feel







FIFLD SERVICE Eliche Refueling, Inc., has



Flight Refueling, Inc.

New Core Superconductor William S. Santo, Sectioners, Cal.

PREVENT NEWSCHOOL ASPORT Bellings & Married

* CONTRACTORS Commo Photo Prod Co. 172 Fifth Ave. New York,

Oans Buller Hebber Com Denn der Sorry BB 5 Hillion Ann, Denn S

Chalcol Suring Co. 366 W. 46 St. Chalcolin

Count offic Septing Co., Summers Cold Septing 1907 Co., Summers Cold Septing Co., Summers Cold Septing Co., S

Coffee Start Co., Serveda Bl. Cola Improved Co., 1980 S. Secol Ave., Inc. Accessor Field Dito
Colorito Suprio Co., El Sahary St. Ution N. Y.
Espeda (Schussela Should St., Standillon N. Y.
Espeda (Schussela Co. Standillon N. Y.
Espino Colorital Co. St. Colorito Colorito
Espino Schussel Co. N. Colorito Sport

& Explosion to Physicage Par Connects I Intglitter Plan. Reshorase

Seneral Potes Syspens Co., 1955 W. Colonia Comm. 10







SAVE LEAD TIME, LOWER TOOL COSTS SCHIED TOOK AND DIE MAKERS ARE NOT ESQUEED . AMERIAN TOLINANCIS WILD AND ARE CONSTANT ELMANATIS SECONDARY NIPPLING DELLING

DIMENT DRIGH PRINTS QUICK AND EASY INSTALLABONS IN PRESS Write for porticulars on Farty and Germaine Service

160 Flushing Avenue, Brooklyn S. N. Y.



navigation is a problem

... and a hading system for seconds in all types of womber.

DEVELOPMENT ENGINEERING SERVO ENGINEERING DESIGN ENGINEERING plane corted Manager Engineering Persagnal



Covery Clear Node Midnel In Covery N. V. Myser Creech, 60 For 16th Sr. Depter, Olde Covery Description Co. 1977 Orleans St. N. W.

House Con.

W. S. Comer Supressing Co. Stationy, Cots, Control Station, Codes, 15 codes 15 codes, Stational Mich. Comer Cog., 25 W. Again St. Station, Co., Codes, 15 codes, Co., Codes, Codes,

Min. Cardward Di Cr., Force Cri. (She Cardward Mines 27 23rd in Sociétat N. Y. Cardwi Darman 2017 I. Nove trice Mr. You Spice Sooner, Maries Gric Hower Sooners Co. 4730m in Smillyn, N. 7 Specialist 178 E. Arter Vales Sight

J. C. Carreny, School, Ohio. Cook Banks, Cr., 1427 Street, Novy, School,

formal Books II All marries from 1 february

for for names. Sr. of Worth St. New York,

Perturned below are four ressons why Bohr is world-foreces as the hudder of readyto-mstall Pow-R-Pax for aimlanes. In addition to the Lockheed Somer G Constellation -- Bohr builds the Pow-B-Pax for tury planes including the Boeing KC-185. B-52. Douglas DC-7 and the Convatr 600.



PLUS COOK SO 000 OTHER REPUBLICATION. CHAPT PARTS Corrently, Bobe is producing over 50,000 different parts for aircraft of all lands authorize the vost design, earnperriest and production experience pained from bribling thousands upon thousands of power packages - far more than any-

one else in the world.



Creechill Co., 494 Calcurated in Proper dita.
Conne Co. 1584 S. Brokeper Dompo Si
Creeches Development only Co., Seylon Ches
Creeche, Inc., 16 W. 200 St. Nav. Wol. M. V.
Creeches, Inc., 16 W. 200 St. Nav. Wol. M. V.
Creeches, Inc., 16 W. 200 St. Nav. Wol. M. V.
Creeches Collectories Inc., Subservey Not. M. V.

Arrests Did . Settle Decree 15 Hop.
C. J. Derrick for Socials And
Declaration College Homeson Int H.
Debrooks College Homeson Int H.
Debrooks College IST Hombure St. Navier High-lands March.

Done Co. 43 W. Apple In. Depter Oble. Street Laboratory, Inc. 4781 Georgebry Mr. T - Benn Politing N J - or Burkeyin Nodes - Georgetin Co., Booksed H - other Inc. And Addition For the About Politics II Bennyan Ann. Brylin.

Palma Coris Indulfon, SEC W. North Asso, CONTRACTORS

New York (bit 100 to Ministern Ave., Change, III. Not Not Suppose by Individuals Inc. Angelog. nst Nos Montaine (ME) Belgines and Saryan (Mile Humbry Builde Besselv (SMI) Commonwealth Cold December State: Inc. New York H. Y. J. One States: Its Subbastic State Conductor Programming Co. 1980 States St., Colombus, Marie have been books, honory too ferry,

December Collis Coulds: Strike of St. W. Controller ST. Stagle (in Worldman, Alexan, Charles (in St. Stagle (in Strike and Charles) (in Strike (in Mich. Deutsch Cr. 7600 Arrolan Brit. Lin Angeles, Calif. Development Engineer up Cn. 7 Cross St., Morenda

To No Cone. IIII Anninos nos Chinese M. Process for Ma Face St. Contract. Owner Informs De 1985 AuCout St. Santon Demond find Season Co. Second Ave. Now



NOT SCHOOL OR 1990 5 New St. Naview.

Transce Rd Tray Code Science on RDE Source Bird, Len Arapha Colff

Angelo Colf.
Contr. Infrantolio F. G. Ing. 100 British Design Interested to the Second H. Y. Chees State Co., 1247 North 24 Second H. Y. Chees State Co., 2247 North 24 Second H. Y. Chees State State Co., 2247 North 24 Second H. Y. Chees State State Co., 1247 North 24 Second H. Y. Chees State State Co., 1247 North 24 Second H. Y. Chees Stat

VERSATILITY IN DESIGN AND DEVELOPMENT

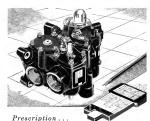
From Circuit to System to the Site, RADIATION. Inc. has the experience and facilities to provide a complete contractual service.





RADIATION, Inc.'s seems of andrewer covers the following fulfile Experimental Alexant Instrumentation Regarding Systems Electronic Countermancers Systems Digital Talonatry Sys Missile Checksut Equipment

Melbeums file RADIATION Inc. Electronics • Avionics • Instrumentation



FOR HIGH TEMPERATURES

ever before. This means that touch problems created by the terrific terrorestones ownersted at superspeak speak have to be boked

components designed to meet temperature over high temperature - or other fiel con-

CECO is already developing systems and CECO OFFERS CAREFF OPPORTUNITIES FOR YOUNG ENGINEERS ... who want to play an important position on a deed operated team . . . asks want the responsibility of originating and



CHAPTE OUR ROMEVARD WITH HARTON

Makers of Jet Almosts Assessment Produced TODAY to more TOMORROWS Processes

PROTECT AGAINST ...

... WITH MINIMUM WEIGHT

"Calente" & SAX has proven intell for estorals applications in such problem areas as baseases comparements, cargo servitester and cooker feers. After showards of horm in sexual service in a large flore of modern transport asterola, its sur-

face shows no signs of domage. "Colosis" is reproductived by a dollary subsidiers, in Eight in weight, and capping a much damble surface. It offices wooded. It is unaffected by pergeleum products



Write, phose or wex us, order, for complete information whose "Colories" & BEX CALAHAN & HORSEY, INC.

ARTYSIS (NO. 7, 1308)



- with Celco miniaturization

1. This caused, emin-privated sided allow yield improved 2 Glass, adoptes, elicope, and polyester film involvious

Latest spoay and afficure robber encapsulation techniques highly developed at Celco.

WEIGHT

Prestrutius Sectionies Administrates Pa You plant is sely bears every by the Color Air Short

Driveryk Pederk, by , 455 1450 S., Junetes Sales of the Sales

M Y Street Co., 207 I Novice St. 10. Co., NYG W. St. M., Chicago St., Printer III Sur. 2001 Com. Ave., NW, Wash

L. S. Osobey, Inc. 220 Park Ave., New York, N. Y. Stone Remarks Corp., 26 Schooler St., Washing, Sweep Surber (Ste. Mr. Sweep Park Staff, Santa

Orngle Co. 421 Ing Jrn Commed Dile O December Co. 1900 Aure St. Aufberd Auch Condey Corp., 953 Students Mr., Aufberd, Condey Corp., 953 Students Mr., Aufberd, Penalty Course, 175 Secondary Nr., Nature Perils, Nr. 7 No. State Comp. St. Charles III Charles Company of the Company State III Company Addition and Asserts December, Sec.

Wills M. F. Symmet Engineers Co. 28 Contains St., Contactual.

layle Pales Co. Assertion Mily. Contracts, 68-in role Equal Co., Mallor III. Julie Persols Delevations Produkti, N. Y. Iral Costf. Mars. Inc., 19. Poliston Parkway, No. Review M. P. N. Y. Surlant Industries Will the St. How Howe Com-lesses Benerally F.D. Eco W. Welley Corne Po. IA and Rude, Inc. STOP at Are, long bland Cots, H Y

fine 8 G Sten, 49 Warmann Are, 31 Peol. Address Markins 18th & Colorant Are., Electr.

Shorthred Seating III Nagare St., Alberton H. Sreed Infrantosse, 488 W. 17 Int. St., Chicago II Storald Splagate. 30 S. Aband St., Cambridge Photo-social Storac ASS Geometric Arm., New York St. Day Bade Only Street has Street .

Easter Indianter Forder Arm. Standard, Corn. Easter Standard, Corp., 1988 M. Mode St., Gov. Armster, Colf. Fand Cook Electro Sproyth Stebesger Mich Electro Society Bettery 1915 Milesbury Ave. Philo Sports Sports Com Commistee their Sports Sport Sports Commistee their Sports Sp

Yesh, N. F. Davine Impulse, 62 White S., End Bred, N. J. Huston Instrument, F.G. See, S. See Green, Colff Davine Analysis of Indonesian, S.-C. 424 April Davine Analysis of Indonesian, S.-C. 424 April point the formed Ex. Aurilia Sea bette Andrewed Ex. Aurilia Sea bette Andrewed Beauch Co., M. Nove Sc. & App.

Destroys Laborated Inc. Indonesia Inc. Sections Laborated Specie, 1452-17 Challen St.

Bellevic Hedradist Schools City N. J. Bellevic Hesteld Co., 111 S. Told St., 28 Venne Shoranic Season). Hill N. Phys. Park Ave., Science vole lost Electronic Spanishy Co. 3456 Glandish Lan Angelos Detroit Live E Samuel Ave., Policibility In Destroy, Wald Co. Placking, M. Y. Charleson, Inc., TIT Street Area, Warnerdy N. J. Charleson, Inc., Ed. E. Str., Str., S. Sangare, N. Y. Charleson, V. S. Str., Charleson, N. J. Str., Charleson, N. S. Str

Effect Surprises, Ur. 5 Parks, Brahead

FNGINFFRING TIMETABLE



9:00 AM - DYNAMICS Societ Electronics

Can you may part in the advanced, com-



Manda statement Spaler Hestmake

RESEARCH-DEVELOPMENT



NCR IS BUILDING A BRIGHT FUTURE

laguages are encouraged about any frost of The

Research and Engineering buildings pretared above.

National Cost Standard Company, and they should be National Cash Review Company, Dayton 2, Ohio ENGINEERS & SCIENTISTS

THE NATIONAL CASH REGISTER COMPANY, 044101 3, 0010

Our Expelsed Inc. 10 Proper Sec. 9 Securi.

Francisco School 215 Hormon St. Roofsty. Engineer State Service, 14 Mr. 646. St., New York,

Ergennung Product 1906 E. Washington, bellendate. One for 401 5. Decision St., Charge,

& love by 166 & in Argon by Special Sec. 128 No. to Available Ave., Brakes, Real Superment Nam. Co., 11 (2nd St., New York N. Y. Mark Superments V. W. Warris N. Y. Stor. Mrg. Co., 4800 S. 1995, McConchan, Wh. Supp. Mrg. Co., SSR S. 1994 St., Son Red., N. Y. Supp. Mrg. Co., SSR S. 1994 St., Son Red., N. Y.

or, 710 3 Treed St., Table Oblin-tor, Despressor Territod St., Balt

Service Service Corp. Street, Call.

Souther Manufacture Colp., 1900 Discount St.,

PRESSURE-TIGHT JOINTS

PLES WEIGHT REDUCTION 9

Yes, the EXPAND-CLAVATIC'S IGINING PROCESS with our new

type, Dual-Duty Aircraft Riveting Hammers plus Expand-O-Matic" Europeers and Headers, and/or semi-automotic and fully outromotic Bigeton Machines ... designed to meet your sountic needs, will enable you to accomplish these and many other abjectives while providing LOW-COST production of your proset and future IET AIRCRAFT and/or MISSIES THE EXPAND-CLARATICS ICHNING PROCESS & EQUIPMENT

plus majors possible the use of were or wire ples as a replacement for conventional solid rivets. And also, various forms of * Treeds March Named & Product Paterts cooled for ROSS RIVETERS, INC.

Festery and Cornell Offices 1280 - 1400 Airport Bood

Belowed to the development, design and numbers of worker Neck-Quality

LET US PUT OUR EXPERIENCE TO WORK FOR YOU



with Prefabricated Brazing Rings as prelibelested bessing rings. Then'll speed the fibrication and increase the quality of all stainless steel tabular assem-

bles. Rung sizes and allow grades to suit your reeds. Write for complete information today. STAINLESS PROCESSING DIVISION

WALL COLMONOY CORPORATION PERSONAL Second Print Municipals For Explosions 1925 Stoff Print Municipals



CLED SITCH METAL

COURS WATER WOOD

CAA queryed up to 275 kg.

TEST CLURS

up to 3000 has

most fire him.

Have ou heard about Permadizing?*

*Stillmen's sychology Personizing Process can solve free parts. Steel-swooth scaling suringes allow effective





Get Your Air the Positive Way

UTED BY THE ADDRESS T DIRECTLY COR-

s Simulated Albitude Conditions

. Greand Air Conditioners 2025 Sert Streets Avenue Alein Floor Citation P. 2222

CONTRACTORS

femal About Note, MR H Abouted Dr. Period Adj. Espanning Cop. 100 200 Student

Needlends Contrado Co., ISSE N. Hanny St., Adequi No. Reserved. Institute Statem Springer (Stee Subsential State (1990 N. Kady a Area (1990) St. See No. Co. 48 N. 1990 St. Now York M. F.

The and Bridge Co. 1999 Frenches Flores Africa Otto Flores Cony 720 Service St. Station Meson Texts See See 1975 Service St. Strategick P. Policy Separater Section September 1 Sept. Con- Fides Periodic N. F. Potts Scientific Co., 1936 S. Adfress Ave., N.

Phublic Tolling Couldnet Cone Features Readon 2000 Chin Apr II Name Coll Baseman Cone 1112 5 Total Per Represent 11 Parts See penni down belonatered Apr Minel

Register Annien III Worth In; Hear York, H. T. G. S. Richs, Stof Kodenger, Engine, Quinness Profels Stein Edwards; Subdicate Fo. Rectate September (co., Mattheples Steffen R. Y. Rectate Supplementa, 45 N. 1th S. Allerangelle,

Ania Core. Florates Core., 313 Seconds Ave., New York H. P. Florates Physics Co., 848 Stat. Step. (Sections) 1884. Poets Coy., 88 W. Colondo St. Dissible Cell: Famin Gop Coy., 143 Septimites. Dismined Con-Found Scholery, Nicv. 90, Vo., Famil Authors and Classical Cons., 200 W. John 30, See June Cell: Poets Building Stee Verbinas Co., 4545 S. Warten Poets Building Stee Verbinas Co., 4545 S. Warten

For Strangery, New York, N. Y. Avenue George St., Sin Process Stranger Stranger St., Sin Process St., Sin Process Stranger Stranger St., Sin Process Stranger Stranger St.





Supersonic jet inlet: an example of Baeing-Wichita research

1086 C CANTEL ON COLUMN - Personal



ANNATION WEEK Auseu 6, 1956

* CONTRACTORS

N S Anna A Passines 2002 Min Sc Brestries A V Annual State College France, Gald Arthra Colleger VIII Streets St. Udon N. V Annual St. Streets St. W. Personal Man-

8 × Making Mily Co., 18840 Great St., Making Ohne H. J. Pollor Co., 1071 W. Sel Ave. Colombin. Glil. Philips Sciences Statistics. Diegos Propos. Stability. Mark Philips. Sens Doyland Farmer Co., 4264 Sensi In., New Amphie, Calli. Anily Corp., 1999 Surpley St., Sourcest, Olds.

Colorial Co., Nov., 1168 Stated St. Clausinos, Obs-Culoral Co., 126 Courses Mr. Nicolana, Nov. Oscilero Schriffe, Co., 1271 Weighterend Jones Read P Server Co. Die Term Side, Circle-

KOHLER

Aircraft - Industrial - Automotive

Garage Company Statute Co., 490 Canin

Second Interropic Assesses II S Belliand Dr.

Supremy Spring Co. 1607 Authorizer Street. Loss Secretary Sale, Std 4 O St. No. Walley

FREE FLOW

Colf Charles Co., 400 M (Main St. Januarille, Wa. School Charles Cong., 576 M (Main St. Waster)

"What do you





successful engineering career?" Your feture in brighter at Rose became of this serious combination of advantages



need for a

Arrivance - Propagata - Electronics, 30 percept of Rysci engineering in challenging design work in Jet VTO -Global Navigation - Jet Dropes - Missile Guidance - New Planes-Musules-Jet Enrine Metallurry and Rocket GPPF - With 250 on the Engineering Division flows in her enough to be downsted - small enough to be closely

knit. You will get atmoubting, broad expenses - never STABILITY - In 33 years. Rean has desirned and renin jet propaision-afterburning-CW Radar. GROWTH ... Ryon Engineering Distance has tracked an those years. Burn lands in Let UTO ... Automatic Nanism.



CLIMATE - Vor. will enter recent, cleanable Sun Diego where faving is unlimited - where the world's best elimate lets you swize, yeeht, aks, poll, fly the year 'round, Where



Engineering Division, Ryan Astronastical Company



RYAN AFRONAUTICAL COMPANY

CONTINUE PLETABLE - MEATING ROPISMENT - SLECTING PLANTS - AVE-COCKED ENGINES - PRECISION CONTROLS

"Super-G" uses Kohler valves Mobiles blooder and Clies check values on well as Jet engine, commercial and military aircraft for careting hydraulic, fael, pseumatic and au-Kohler Co marriaga, in one plant, complete facilities for ferging, coating, maches any and finals ing. Our engineers develop controls to specifica-Kehler Co., Kehler, Winsonsin, Scholishurt 1873 KOHLER OF KOHLER



IN SUPER-SAFE CARRIERS built by Crain Thousands of America's serial matching -- manyone minder the Februs.

N. F. Swifter Day, 13th Challes St. States in N. Y. Swame Feelin Coar, 170 Stra E. Line Dule Swad Geshol Adl. Ex. Swife Services Call Swad Sected Miguel, 1350 Acres Qv., Obendols, Steffer General 18th Hampiles St. Parabolists Milesoni Sano, 600 Nament Ave., San Armite Graphy Electra Co., 427 Lankspin Ave., New York, N. V.



By the to wind to at East I'l doing the Militar Days.

Bellevilles Co. 15th & Radon San Chinas

N F Conduct Co. 200 S Alexa St. Advant Girls Services: Alexand Com., Marie Areast, Alexan.

the 3 Chapter Lt. 100
Francisco Colf.
Switcher Co. III fill Place St. Mare Trib. N. Y.
Jagoban Co. 1845-67 Sectioned Berton Chy Me Cross Santon & Switch Co. 100 S. Wagdin St.

Records No. Sollin May Compromise Co. Hill in Indicago in Antiquestry, Als School High Co. 32 N. Street St., School, Oliverson St., Street, St., St. W. Heiser, St. Chicago, III. Strategy Grane, Chicago, Strategy, Grane, Chicago,

Galler Mig. Corp., 213 States Ster., Manufact.

AVERTICAL WEEK, Aurest 6, 1856

Studies Mg Gr. New Steen, Wo. Sansates, Manufacture, March Gr., Collecte Ave., Laurente. * CONTRACTORS

> Summarized strip Co., and W. St. St., New York, N Y though Condy Co., Elevabel Ave., Offices. Short and Francis St Pales St, New York N Y Shorter Place Sty 19, 188 Charter St. Named. H. T. Stormblege Corp. 34th I beyond Mid: Inc Arrante Colf.
> Serper Engineering, 950 temper St. Serber. Do.
> Street Schiquester Co., 361 Walter St. Con.
> Schiller Steet. Stories (Semesi Co., 600 Water St. Code

> d One My Co. 108 Surbalance Are, Hardon on Date My Co. 173 M. Dunned St. Resided Oliv. Series No. Series No. Series of Brown Friedland, Cornerty Series Friedland, Cornerty Story Proy Cop. off Series & Miss & V.

Obesica Coll I Household II. Ames Co. I to ... Lanes Co. I to ... Lanes Co. I to ... Lanes Co. III. Lanes Co. I CAs N J. Money College Nucley, Hab Mostry Learning Co., 10 See 1975, Houston We Make any Indonesia Co., 1264 II. Challen St. Ell Booken St. Broke Ave. Housel Co. 19 Cooleys Hill Sd.

Acysin Mg. Co., Inviegen, Geo. Hops Alexelt Co. Fo. Str. 2015. Brainplan, Ale Rope, Inviewe, Millered Lie. Johns. Hol-Ropeline Stable Copy. 20 23 Life Hol. Revey, 19th Holy, N. Y. Holes Co. 2015 Marrand Sphell, Min. Salord Samont Goy. 1915. Fifth Am. Surge.

Maldario Consist did N. Int D. Septem Onlo Halling Inc., Long Island City, N. V. Balling Sydne Cong., Cords & Edward Arm. fundo statón (a. founçan, com metric Authoritor Co., Alterespondo H. H. arcolos firendo: Co., 190 Marinel St., Villadospon Barbin New York H Y

Native Barry Co. Steward & Street Ave. Header Labo, Inc., Marcin Peds, Colff. SHATION WEEK, August 5, 1956

the QUICK answer to Stressed Panel Fastener problems . . .

HIGH STRENGTH POTARY FASTENER



SPF eliminates obertepmines of other methods of securing removable structural namels... . gives all the educateges of a thread plan





FASTENER CORPORATION 22 Spring Volter Read, Paramas, N. J. WEST COAST OFFICE: SALE WILLIAMS BLVD. LOS AMOSTICS, CAL.





TO LOOK INTO SPACE PROJECTS

With

GRAND CENTRAL ROCKET CO.

Redlands, California



As ninneers, our solid propellent racket maters are now operating in the Upper Air Reaches. The future will find them in outer space. For your invitation to join our growing staff of recognized solid propollant scientists, engineers, technical specialists and trainnes; and for the pleasure of working and living in beautiful, smoo-free Redlands write or call today. SOLID PROPELLANT ROCKETS ARE PRORING SPACEL

Den't Mics The Gread Control Beaket Co., Booth 721 at the Airforce Association Airpower Processes, New Orleses, La. Assent 2-2-4 & 5.

* CONTRACTORS

Bull Ablands Settement Co. Davis. Oils Bull Ablands Dispressing, Chemic Cole. Bull Rubers Supermiss Co. 7 University Inco.

State of States of States of States In-hard face inc. 1838 interes from Provider H V

2 A, Hillingsmooth, Chiles Beights, Ro
N E Beillane: 1900 7 Sealant Mile Conten Otto
Nobeau & Harres Cu., Les Angeles Cell
Nobeau & Harres Cu., Les Angeles Dell
Nobeau & Harres Cu., Les Angeles Botto
Historials Cosp., 4400 Searaithis Ara Pt County,

Whiteholder Pa. Hou A Sale Str., Nove Sale, Oliv. AVAIDON WEEK, Assur: 6, 1996



CURIC is proud of its contributions to the armed faces which provid

propried analogue to eligibility convertor permits a low more

CONTRACTORS

"Your impressive partomer lat-

pflots using your engines-are

our overheal agency. But the

most apportant reason was the

E Reed Emmermen

Rent of 13 "Mallion Miles" Salar.

delphor For bed for, 2000 2 stone St. Los Arrocks Crist beaused flood Co. 230 B. Minth St. Chalengel, One budden for Advance Study Divine Large Francisco.

botton of Assessment Science 2 6 466 St.

Indicated Frances Co., 2013 New St., Bookery, Innance of Security on Security Securi Indian Bajor I Rossolt In Gorson Area In-Insent Cop. 4 H Control Are: Baltoners toneed Brokened bit 10 Highland Are Numbers, then Indicated for Indiany 130 than Even St., Street N.Y.

> province similar deglerating Co. 1995 tensor Br. Street Olio. School State Co. 171 Second day. habon, Ette habetend lobe Eng. Anytes find Swet. De-terrational habit diploins. EM 1076, Ave. New 31 New York 31 Y Inherestrati Salesarias Co. 2003 Storas Are. Lo. Angeles Cold

One Seen Co., 230 I Venue N., See Augula.

Mana Karl Joseph Jone Shard Cay N V Joseph Albrick Brancas by Co. NW Street St. Architect Fo. July E 43 St. Marr York N. Y. Jones Health Co., 204 E 43 St. Marr York N. Y. Jones Health Chapter St. P. C. Control Work,

Co., 34 Arrest D., Strier, Ass.

"4 years and 2110 fiving bours with your engines confrmed our choice," save Co-mict

enterio Co. 10 N. Mario St., Strad. Com. Co., 208 S. Swednery, New Philadelphia

Promotion for Engineers

it takes more than ability

Wha Look Aircreft Experiences

Article suppliers is not necessary

You een expend your technical

Lockheed

AMERICANT COMPONATION

BURBANK CALIFORNIA

California Diribion

for an engineer to achieve promotion

If your cuper progress has been held back by lack of promptional apportunity, we think you will be festerated in Lockbard

It's seach discourse. Whe not serie or shows rollers if you passes an engineering degree or actual engineering experience.

Postriore are ones on virtually all levels in firsts of-

PLOST THE PROPERTY. MATRIMATICAL ARRESTOR

BURCHBOOK & SYNTHAS

redor and notices during

Lookheed Ascenti Corporation, Burbank, Children's Dear Str. Picese and me year breedure detailing life and work at

Name and others

OPERATIONS RESPARTS



THE MEN IN THE SHOPS INFILIENCED US



Have you



"Introduction to

Fiberalas Fabrication* KOCH FIREBOLAS TENTH MUNIFICARY 20,74CF

HUBSTPATED MANUAL Penns day Kach Ebergies in tilling new uses in your indestry MECRIFY STRUCTURAL PARIS

ARRESTME ELECTRORIC SELFRENT CARDS

De you have a metaclei emblere? may well be the answer

KOCH FIRERGI AS

One of the standard leavest februariers

CONTRACTORS

Anter Drift.

Erber Monteum Chemical Co. April 100 Work

Erbirk State. Inc. 1870 Access St. See Days Series Adv. Co., DM Nigotor St. Securitation Service State College Manhattan State

Gallerin Tabasai disalam Septembra Germany Ser Johann Barish Co. SEP Ser Revendo M. Ghasian Cell Earthur Letters 200 N Aust St. Crimber. Readed Co. Soc. 1738 McSody Ave., Links Strike.

Rather Fundame 120 Codes N. Chemda, H. Y. Rather Revokets Inc., 61 Editor St., Montaldistr. H. H. Rather, Alternal I Code, Control Regard, Contribut, Course A Strike, imported the of the later in the local de later dest.

Second Council Co., 1484 Money St., Walthern Many Bancompol har, 7 Listed Ave, Lorente, Ro. D. S. Namedy and Co., 400 S. Nore Dr., Colonial New York, N. S.
Serger College, Smelter Otto
Rappa Indonesi Co. Still New York Nos.
Seelbates Steller, N. F.
Serger Steve Co. 600 New York N. S.
Sapala Steller, Co. 600 New York N. S.
Sapala Steller, Co. 600 New York N. S.
Sapala Steller, Co. 600 New York New York N. S.
Sapala Steller, Co. 600 New York New York N. S.
Sapala Steller, Co. 600 New York Ne

B Sabban Inc. New York, M. S. New Coay Addit Caldwards Dr. Comment. Other Screening My. Co. Additor Mich. Screening Got. 20 Chemb St. New York, M. S. Saysham Stdy Co. 104-Debt St. Serve News, M. S. Nicke Edith Cr., No. 497, Antol St. Sedicality. Signer Mr. Co., Manual Co. (Ast.) E. D. Green, 211 S. A. Sr., Gaywoo, Okio. State Charleston Co., 42 September 24, Turkston

Anna Ca 27 Aufla Pleas Statebook Come St L. Shelv Mily Co. 48 E. 11 St., Colombia: Discontinued Labor. County Los St., Swedickl 15 Januar Brights, 10t E. Charlet St., Swedickl, 15 St. Corle and Sons, Carl Monie Gell Bushin Amount Co. 18th Various Ave. Serpen Inc., Minkungh, Fo. inc. See Film Ave., New York, N. P. Minchan Co., Cavingher, Ap.

home and the New ASSESSED 47 154 77

George BASCH Co.

VHS' RELAY A I LOS

pe with national multiplians & C. results Trip point necessities to 1% Millerants

aged by sheater at 150 Grand and others. firm up to 2,200 aps of 4 D's Fig. most sen-

AVECTION WITH Asset & 1996

of Middyne Age After Mid-Springs (Man I Fernings) States, Olda 1901 Midwell N. Manual

A. S. Corp., 21 Opens Place Street, N. J. B. J. Adv. Co., 1989 S. S. Mill, Sci., For Option \$ and 3 Create Co. 100 Sec 1865 More Lake Supe So. 20 Search of St. Autume H Y any Spajement Strys. Agreements. Let may be Statemake her. 25 Fire D. Berley.

Section Co., Sec., 1113 Park St. Confessor. H V bedseeing Co., No. 5 Book Ave., St. all W Supple D, Chings III y & Clot Co., IIII Code Dr. He Bottom, Cores.

Installator, Physical Sharely Co., Miles M. Y.

E. O. Longer, Communities, St.

Enthur S. Landon Co., 195 Nr. Manhaud M. Phinase

ternel Deployers, Calver Str. Cold. Series Marchart Let., 118 Under St. Pallicular M. J. Le Sanz, Constr. Co., March & St. Ann., Scilianov. period of Outloom, o's firms from Major Indo-brooker Cop. Outloo Com-town Edwards, Gentles, Consti-tution belowither Section 2 Australia Mr. Ac-A J Spring 1000 Suprace Or States, Section for Section Section

belief Datestro, Rebbles, No. 1 Lidy Sec. 400 French Nov., Nov. Tork, M. Y. Miller, States St., 1841 States St., States Songe N Labort 125 Walter Dr. Coyne Glos Brade of Octomorie, 1912 Selected from State of Arrived States Stellar, 1168 County 84, San Carlon,

E 2 Debugnets Inc., 2271 H. Adunt St. Panne. incling defaced \$15.5 Chards St., Ellifon, M. 7. Interactive Electronic Prices Co., 1985 Aur. State. Are. Balls Are. Balls Control Co., Chill. St. State. St., Shingstock, Garo, Level Co., All Rendering, Stocking, A. V. Stal A. Lider, St. Lousgaber St. Stateling, St. V. Linker, Marco St., Stateling, St. V. Linker, Marco St., Stateling, St. V. Electric Int. Not Steen St. Checks Cold.

AVIATION WEEK, August 6, 1755

EXTRUSIONS FOR TOMORROW BRIDGEPORT ALUMINUM TODAY ... in a wide variety of alloys for

extremely high-stress applications Now revision? New dealers? For tamorrow's adeas, Bridgeport can produce an eliment unfirmfed variety of standard or conton-made Bridgeport has sumplets extrurion families.... and fully integrated production of dis, contour and head forgings, too. Your product will Whenever your design calls for extrusions or foretage, contact

Bridgeport. The Bridgeport office serving your eres has the details about our envisor and facilities. Call them tadey. For So, you would be RRIDGEPORT, ALUMINUM BE of the same





Girls
Fred Sabar 12 Assument Ave. Ing N Y
Slam har 10 Owner Ave. Spolance N Y
Silve State Salve Co., SAI Brestwey, New York



BUMBLEBEES CAN'T FLYI

You've house the old story? Roly conneces, too, we heav every day relying mendantous meddense on hundreds of vital mass Bobs is keeping these days with more and

are offered outstanding career positions with been at Bohn in bountful Chula Virta located on

Places with giving complete statute and we will encount at once



CONTRACTORS

Holy, Minapolit, Mar. South Información Co. Marion Va. Trois No Postorio Co. M. S. 40 S. Hay York. H T Andrew Ct , 200 Selection E. Color

Strengths Com. 1. 2 Lette Ive. 27 Americal Co., Conducing Man-cifoline Soc., 1984 More Sr., Dange II. Union Sea. 1984 II. Street Am., Soc. Codes. name in tra , 556 N. Frantis Rd., Soverly

Colli-bredie in, FO for SU Absorption N. H. Stational Com., N. See, St. Section Call # F long Dig Brage of Clodes, M J brages Sell Co. 1979 W. Careen Dr. Tangero Smither State Company, Prince Brook Sa.

Marie Anton, 202 Ondry St., Broughton: Po-lating a School Affa. Co., Charles Files School Affa. Co., Charles Files School Affa. E. I. serkin: Qs. at Milk St. School More School and Co., 200 Septem St., September, St. Jr. Store Mis. Corp., 19-49 20-4 St., Sony School City.

1966 State St., Plane Storage Corn. In., Vill Informated Mt., Salte Orion. Much A find My Co., Bryton, Olio Acethory School 20 Stronbows, Cambridge Andrew Berlighton, FQ. Res 19 Handwick H. T. Care Section to Acces, Spec. 1 O Restort Co. Section Step. Access Engineering on SiO House Asp., 1995.

Andreas, Say, Polystolaku Pe-States for 100 Sentines See Set 10 5 Handray Co., 100 Standards, Nav. Took, 14. 5. Andread Sciences Charleston Stee. Arthur S. Moules Co., 173 Chickenho St., Nov. Natl. 45 Y Augusta Co. \$151 Super Sri., For Worse, Inc. AVEATION WEEK, Assurt 6, 1956



specify THERMADOR







if your professional interest is in missile development, you belong at Martin-Denver

For when you combine the challenging problems in our protect of conquering cuter mace with the advantages of broke in the calorful Racky Mountain area...you will have the ultimate in realizing your professional aspirations. The Marris Company resolve was to TAKE ANOTHER LOOK at the real engineering concetualties in Degree, Colorado and scribe to Exemett E. Heory. Rural Director P O Rev 129 Dank N.s. Densur J. Colorado

MARTIN

quarte Amplifors, ASS There Area, Hear York, N V Special Co., 200 303 Contr. St., El. the or the part of the S before the Service, Olds Labeling A. Maymer, Great Print, Albh. 5 I. Anthronium (Tall Service III Sendre Mont Bell Part Dr. 1780 S Change Are. Obligit. II. Latitudenth Quanties Works, American Wing, Chi-chant Side. I Action to 369 I Wookington R

Academican Action Sed for 400 September Ann. New York N.Y. Manufacture Market N. P. Academia Street M.Y. Elfe Are. Bankley N. P. Academia Chinaten. 2004 I. Dany Drive. Perior. Agent Indonesi II IS Server St. New York, Marrie Morrell Co., F.O. Box 1998, Aust Worth, Tan Manus Source Frendschine NOV N. Book St., Maries Andre Co. 132 Novelo Al, Her Son, H. F. Burlle Bridgell Com., 472 Checke W., Jones

State State Str. Co., 26 St St. Rooms Street, 1 H. Annabell DN W. Lone St. Calambia, Older Danies Marris & Co., 2707 Designer Street, Fr. Class S North Co. April 2014, Sufficient Std. Maryland States Wes. 2009 Colour M. Enfoye Should Enhancement for Considered Otto Manual-Assets Counted Simplied Peak Street Section, Mose street and the contract of the contract o Mana Manadana Girachand Will Park St., Manadana, Otto-atura Sanakharanat Co., 2012 S. 199; St., Secretaret.

Make Separation 198 S. 1980 St., Say Asserted. Author Co. I Scherter N 1
Artha stacking Avere, Inc Scyale, Colif.
Spine Applied Depris, 2007 Nov. Seel.



HOW TO LEAKPROOF SHAFTS AT HIGH TEMPERATURES

It makes no difference whether you expose them to a -100°F, deep from or a ringuing 600°F. Pulson Sylphon retary believe seals will still leakproof retating shefts against correspo, explicator or continuating fields and prece One reason is that this seal festures a rearribee, flexible metal believe which augusts, occurreds and deflects to apply the proper sealing measure at all tunce. Purthermore, the Palton Swindson helicon seek is made with solver solder for extra both-temperature You see obtain Fulton Scholon bellows scale in receting or

mends up to 20,000 RFM. For the stames enemy and other swhaterer, they're also available with would construction to solve argent contamentian unblems.



LEBANON'S NEW CERAMICAST PROCESS NOW IN QUANTITY PRODUCTION OF TWO AIRCRAFT STEEL CASTINGS



... the BEMPIN SARBAR. This backing plate for the Bandis

... Dow CHANCE VOUGHT US STORM ... The support fit-ing for a set engine removalizate in the Chance Vought Cruader was cruicelly produced as a manifest past Wash superfectority at a considerable seet serving The describe characteristics of the operand matching and have been made ing personages water on far the CERAMICAST Process

ware one conseque arrests to find and there

LEBANON STEEL FOUNDRY 40 LUMBAN STREET LIBANON, PRINSYLVANIA CAPAGE LOW ALLOY AND STANSIES STEEL CASTINGS

* CONTRACTORS

A. W. Berger Co. 1810 Brailities St. Bauter, Name Qualif Reyne Co. Daylor Older F. Michel Englas Co., 1846 South Abelles, Los Monthly Mayor, Colorado Springs Color Includer Eng., 1840 News Are. Report, Olde Includer Corpus, 2800 N. 47th D. In. Arealis. Milandry Mattern, 128 Streetwee, New York, N.Y. * M.Coary Terroid States Mess. McGrick Motors Co. #77 W. Cookey Blvd. Los

All programmed accounts properly designed all the contract and the contrac Mark Set N. F. Makesh Sugments Interest as 150 Note: 31.

M. America Delimento, Mantheir, Formatto, Countre M. Alling School and St. 1923 Garrel Bo. F. A. Advisor Co., Adm. Acc., Study St., Automort Coy, Servin St. Brein, N. J. Automort Freine, 1834 Cor St. Joden, Nrh. Burkering Co., Steinbelle Did Market College of Michael, 457 S. 186 St. Similarian Ale.

Andred Indianate Reservo. 2006 S. Promine Area, Inc. Aspelan, Calif.

Jr. A. S. Rainel Williams Rep. We.

Haber Indicate cold Africana, Persinagh, For States Inc., 2008 Integrite Stat. State Charle, No Happy Soc. St. States Am., Actions M. J. Actory Sections Co., 7 St. State 48, 84 Sept. pole led Assultant Serman Co. Inc Ave., Philosophys. Ro. Aurid Cont. Corp., U. S. Muttered Str. M. Mily. Devel. Cels., Aund Hydroles, Inc., 19.54 Gregore Sr., Smarty

Elds, Nordrington S C. Hotelwook (States San Front Acres S IN Spacel Co. 1888 Falton Acr Stryno, Glic Space Spacel Assessed States Acr Stryno, Glic Space Spacel Assessed States St. Co. they known by 196 I Water St. Montable Partners New York A Y

PERSONAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN C of Valley Morgania, Stopmer State Stockets Co., St. Boundary, Sciencedally M.Y. Sannir in MF Fields Are.

Mains Indonesia Co., 400 literato Berran, Sala. Maria Roubbra Co., 2018 Salam Ave., Styren. One Mant Others Co., 4th Sunspield St., Septen.





ACCURACY PERSONIFIED TO 20,000 PSI

INGERTIR CONTROL HYDRAULIC TEST EQUIPMENT by MOHLER!



Writel Wirel Phone for eleterilet Course Seins Office Western Saint Office 33 Sector St. Buffele 11. M. Y. 3447 Cheshob Blod. Los Americo 25, Col. Phone HORMANDY SO 122

Accuracy Tennamittens High Pressure Air-Hudsmally Parents (Cable Address: BAUSINBACH - BUFFALO, U. S.A.)

CONTRACTORS

More Worse Rendomment Schoolstein, 200 Donne - Middle Printing Press, 1000 Augile St. Law Angelon. Edill Miller Schles I. Wein B. Workeyer H. Miller Specials Co., 4D W. See Arrack St. And Address September 1 Street Street Box . This National Alig., Colosburg. 15 Richman Benevol Lecture, 455 Wiles Kind., Kanaca Alternal Trade May Co. 2079 S Sainces & Andrewski bel Andrewski Control International IN C Call Sales to Secretary Published

J. W. Min, 420 heedles Sd. Inc. Augeles, One Miles See Co. 20 April 20 Div. N. T. N. J. I Miller Sons, Joney City, N. J. Miller Markel Products, 2008, Republ. Str. Politicana. And self-re-Special Schemeterles (MSS Annual St., Bulli Witness Wife Comp., 202 N. Rebbard Ave., Face. Inday Aprilma 200 N. Inskink Ace.

School Consum to the Angelse Colo. Inded Engineering Mig. In: Anyta (Say Alleh Indeded / Profest Co. 1888 Engin and Assemb F. Andler, Advance Outputers, Married

Servery Robbel Inscision, 166 E. Prim St., Primely'Sts. As Maided Long Projects ID Sproudy Ave., Assessor, N. J. Norman December Sys. II Place San. Screenwal Milly 100 S. 14th St. See Sendin, Colf. Residen Product Co., 813 Februari Are, Festalem Fall.

Catalil Nova N. Cabache N. 7 Accorde Sco Co. 7 G. Sco 110 Depart Oble Accorde Markho Co. 120 St. result St. Schools

gas H A. Assas Indomes Co. D. Clares & Hohan Ohn Acades J L. 200 N. Full Oaks Proofers Colf. Reals Recyclottes, 1500 W. Staff M. Conbest, Obce Supposed Co. Ton Oblid tends inc. still W Aspen Bed. Dilago, III nor delpriss Edisps. I Forface Most

of M. Margier Con. Alth Station State, Marrie Spots offer that Co. Seddon, Explined Sci. Sedon, Mon. Self-Sedon, Explined Sci. Sedon, Mon. Sedon, Mon. Sedon, Sci. Sedon, Mon. Sedon, Corp., 15t W. Joy St. Sedonson Cold. N I Market Corp. of America, 40 Cities Steel, Office,

M. J. Street, W. Parker, Am., Sales L.

Madesol Anadory of Strong Std Constitution and Madesolph St Meaned Services Co., St. Worth, Ser.

ANATION WEEK, Aspect 5, 1956

Minnerto Municipi Mg. 108 Student Ave. St. Paul, on D Irosis Re I Harland Co. Stor 433 Albertaneous H. M. Hall Compile Co., 100 W. Brivings M. Dibendrin,

A Pilot'S THOUSAND ARMS



Where the pdot's hanned control as index's complex secretic reduproperty control teles over These bills recovered ball refrageries



Constitute Afficiates T. C. CROWN, U.E. 1649 S. Cathorine St. W., November 1 Own. THE APPOTEC COPPODATION "Flight-Leader" in Dependability...

Federal's "Advance-Engineered" Aircraft Cables...



Money average is advancing with transporters strates. When speedfring cubic raday, sixerall designers. term . Perform cables been you is step with new and

Call Nucley 2 3600 or west Dept. D-7116A

Sedend's M. 1991 - Dancy Prescring try Atlanta RO-EPA/E, 141/9 - 30 stars, RO-140/U - 72 shore collisiones Tadon pressul caldes for higher Annual collections | Tables Federal's K-256, REP and RSS QR, 30 and 10 chief manager proper with "Epide" di

> "America leading manufactures of united diselected: consulat cobles".

89-91/4, 80-85/V - Sevens expect cybles for par with explorer main or URF and higher for

89-13/6, 28/9-12: and 12 stan countd solites

Federal Telephone and Radio Company

In Connection Structural Schoolseum and Epithia Ada, Co. (Connectic Std., Navional, P. S.

Here's how FWD tackles specialized heavy-duty equipment problems



For more than 40 years . . . The Fore Wheel Drive

developing and building greater, surer mobility L renge than \$8,000 FWD trucks were detrested to allied arraics. Since that time a part of our force program. More recent heavy-duty, specialised coursment resiscts handled by EWD invisite the designing development and manufacture of the "Terscruser," a Pasumatic Roller Type Currier for Caren or Personnal: the MUC 6 x 6 Crone

Currier, and the two-ten, 4 x 4 self-leading The accordance and technical "Droombous" of L



lewy-Duty Vehicle Specialists





Martine Code Reporte, 1254 S. Politecco Bull., Ductors Chin.

16 8 MRA Server W Told & Schools Conduct Olds Heart Controllers Tex 2 Societ Ave. Toront Adv Name Co. Manufacia: Com. Nav. J. M. Co. Th. Elin St. He-shoot Com. Malach Prefigir Co. 200 W. Mole St. Manufacia

Wiles Servert Front, I. Charles Coll. Elinf. W. Roth Soul. Com. Backs Co.: 1800 Fib. St., Ordered Cold. Backs Souley Mrs. Co.: 440 S. Ph. N. S. Poul. Makeuric Ade Conv. 255 W. 805 St. Samoura Strate Later, St. Perk Ave., New York, N. F. Strater, J. G., Inc., F.O. Eco P.G. Berkell, N. A. Names Straff Later, Witness Stre. Wite

No. 7 Total All Bods Wicksons, N. 7

Galf Markens Admin. 1992 Germania Ave., 51 Paul Natur Designment Assessmen, 61 Greet 21 White Fisher, N. Y.

Mr. Dorelon College Dahron N. C. Northern State Co., 145-2 W. 20of St., New York,

There's a dependable Bendix AN

SCINFLEX CONNECTOR for every electrical circuit

These electrical connectors are desirred and limit to resistance to mairban and effection, there customers Our Sales Department will be glad to formels com-

SCINTILLA DIVISION OF MANEY, HEM DORK C Promining from Markey Collection (APACE)

1 Promining from Markey Collection (APACE)

2 - Implement Bushing 1887 Gain Annua Tarrel 2 Midday (105 Berl) (
Annua Tarrel 2 Midday (105 Gain Annua Tarrel 2 Midday (105 Berl) (
Annua Tarrel 2 Midday (105 Gain Annua Tarrel 2 Midday (105 Berl) (
Annua Tarrel 2 Midday (105 Gain Annua Tarrel 2 Midday (105 Berl) (
Annua Tarrel 2 Midday (105 Gain Annua Tarrel 2 Midday (105 Berl) (
Annua Tarrel



ANIATION WILK Award 6, 1896



without difficulty
This potent dress thy TOIQ (SET ignitum to thick, per
to be remard votal official).
This bounds because the dressy with of the remark
to TOIQ (SET ignitum to the remark
to TOIQ (SET ignitum to the remark
to TOIQ (SET ignitum to the terminal to intrinsic)
this town, without hourse or determine.
The remarks of the remark to the remark
to the remark to the remark to the remark
to the remark to the remark to the remark
to the remark to the remark to the terminal
to the remarks that also remarks the remark
to the remarks that also remarks the remarks
that the remarks that also remarks the remarks
that the remarks that the remarks that the remarks
that the remarks that the remarks the remarks
that the remarks that the remarks
the remarks that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
that the remarks that the remarks
the remarks the remarks the remarks
the remarks the remarks the r

The biggest news in

West Const Soles Office and Warnhouse Air Industries of Colleges, \$22 W. Hode Prok Elve, Indistruped, Colleges

O and A subject ACS E Stram Any Interaction Cold.

Character [Inter Stram Park & Cold. Assemblie, V. Galler, C. L. Stram Cold. Col

And Notice Co. 2771 is that in the Addition of the Co. 2771 is that in the Addition of the Co. 2771 is that in the Addition of the Co. 2771 is the Co. 2771 is

PA Frience, Su. 288 Calcreds See, Landmarks Cell.
Polithery Green Works, 1993. 3 Const. Los. Los Polithery Green Works, 1993. 5 Const. Los Politic Academia 1990. Nollywork 1994. Politic Academia 1994. Nollywork 1994. Cell. 2004. 1994. Cell See Land-Van Mary Cell. 2004. 1994. Cell See Land-Van Mary Cell. 2004. 1994. Cell See Land-Van Mary Academia Cell. 2004. 1994. 1994. 1994. Nollywork Cell. 2004. 1994. 1994. 1994. Nollywork Cell. 2004. 1994. 1994. 1994. Nollywork Cell. 2004. 1994. 1994. 1994. Polithik Cell. 2004. 1994. 1994. 1994. The State Cont. 100 Earlies Ave. 100, 100 Hz. 100 Hz.

Francis Inductor September (sp. Belle Stevens and Select A. 27 E Steven S. Lon Angelon Eckin Seath Select A. 27 E Stevens Select Select

Navioral Selformeri, 1913 Comme Str., Debried, S. S. Salvin, Barber, B. S. James B. S. James B. S. Salvin, S. Salvin, S. Salvin, S. Salvin, S. Salvin, S. Salvin, B. S. Salvin, S. Salvin, B. S. Salvin, S. Salvin, S. Salvin, B. S. Salvin, S. Salvin, B. S. Salvin, S. Salv

Processes assesses under 1166 Petable Sily.
Price Stame Co., Shoreka, N. J.
Price Stame Co., Shoreka, Shoreka

Phys. Cer., 198 a Corches D., Pillerschie, Mod. P., Bill Sony, Am., Nov. Philosophys. Levil. P., Bill Sony, Am., Nov. Philosophys. Levil. P., Bill Sony, Am., Per-Riffe, Liu, Jonathys P., Santan, S., Santan, S.,

Decaded of Indian Pattern Com-

Police and Even 5-O Hubbed Ris. Numbers, State and 6-30 H00 has force for abundan, Guld Service States, Francis II. State States Security, 702 Citis Francis Pals, France Industria Service States Pals, France Industria Service States Pals, France Security 202 Service Ser

Planning Co., 30 Chrish, S. New York, T.
Pilleberg, R. S.

Primarile (in Springshill Office Primarile (in Springshill Office) Primari

Projections and volume and proposition College, Chammers, Cal. Creed St., El Poro, Proclass England & 260 Creed St., El Poro, Text, Indian el 190 Galdatomph Mr. Evyton, Gillian and Arrive, Proclass, American St. E. C., Schold III. Francis St. E. C., Schold III. Francis Assessment Co., El Andrew Mr. Everth, Natur Assessment Co., El Andrew Mr. Everth, Natur Assessment Co., El Andrew Mr. Prince St. C., Schold III.

Police Industrial Cr. 115 Quite Self Mr. Seat Chick Self. Quite Self Mr. Seat Chicken, Mr. Seat

fasteners comes from

Your BLOWER PROBLEM BUSINESS

redark francese, Oktops, 81 Supplier Spaces, 1868 Parisle St., Sons PA T STATE OF SEED W 20 Inchessed Calif. Station Sections 4E Deliver St. Deliver Obs. Station Sections 27 Deliver St. Deliver Obs. mines define the Am. Produce 5 : the force in 160 W believe first, in M V Addr Street, 312 W Noth St. Cools

CONTRACTORS

Season for for all Marco Coned Com-

remove yell 14. XII Ovice S. Osome H. Sindan September 14. XII Ovice S. Research Association in 7.0 for H7 believed For September 14. XII Ovice S. XII Novice September 14. XII Ovice S. XII Novice September 14. XII Ovice September 15. XIII Ovice Septem



Whenever wouts are frequently anspecific requirements LOK rate tean could man been We manufacture the entire unitnetz bolts withers etc \$6.50 push button puss are eade operator most first push release

THE RECOVER YOU NEED Fig. Note the description of the same ordered upted makes Nill Man Averes, by Assain I. Cultures 1140 Warburnet Host, Les Angeles 11, Cult.

ROWE SALES CO.

Solo Septime Now York, H. S. Solo Reprines, Str., 47 W. 465 St., New York, Colff. Septimber J. S., New York, H. Y.

Whitelifes Co., 1600 Relieure Are, Lee de maker Coll.

Income Homer E. Combo Man Heat
Rand Cong. (195) Mont St. Sonta Rentice Coll.

Solidam Ci., Francase Mol. Ro.

Sol former forms Co. 1000 Furth that Pric. But

er Names Specific N. J. Bandood Cop. 200 lealington Ava. Nave. in N 1 ing Perlamin (NA 2) Bankay 7a Alig Co. 80 Radon S. Mahanda Mon. olin Co. 100 Radon Mrs. May No. 9 5

Series February Colon J. Philip St. New York N. S. Series Indiannel Colon 212 C. Will St. New York N. S. H.T.

Samples Polyton, St. German Say, N. Y. Samples Society Con Castles S. Semmydele. Sales Calculates So., 7 Water St. Sales stem Sensor's Surelayment Co., 409 S. Callan, Fillents

Where Conventional Actuators Won't Work... SAGINAW b/b SCREWS Will Solve Your Problem!



lands with precision in begind agent-come under extreme straigenmanic that are ton touch for budgedon, accomplise or arms across

NEERING ABILITIES, EXPERIENCE AND DESIGN PEATURES TO OVER-COME ALL THESE PROBLEMS:







LACK OF LUBRICATION





Screun & Sn



my.

20M SWY

CONTRACTORS

Terrord from Sens How York N S.
Sen Challeng, Inc. 202 NW 5th Ave. Accord the
Bitter shan Sellings 1 W 35th St. No. York N Y
Shall be sharped by March Sen. War. Registed Charded Co., Registed 15 Registed Charded Co., Registed 15 Registed Matel Co., 1 Red Dr. Ave., Stranda No. 3 Rebisht and Mayon 1940 Legents are Spring Sold Olds Robbins Alb 1407 Southern Nov York 21 7 Robbins Arb 118 N Colleges No. Supple hang Po Burker has Engineering Co. Nils W. Colorado, Glan

Mars Solen and Ness Co., 222 W. Washington Sq., Pull Co. Let Shill March Stee Francisco Colff Colois Co. All Talgo St. Borne N. C. Electroni Depoly Co. (12) Roy Bed. Borne. One O Rose Com. Bothord III Son Son Admin Vo. E. J. Dogo Sen, 19 Sudan On, 11 Sudantes Marc

V ton Jry N Aubert Ave Section All. Avid Solder Co. 1800 Sale Ave. Come 15 Second 1 A Shales MT W Decree 31, Second

the desired Entire Co. Color Crep. Colf. Silver Co. Color Co. Colf. Silver Color Sire. Percenture, Colf. Col. Assessmented Cong. 2001 Marchen Co. Son.

Southern Assessing to the Carel St. Nation.

N. S. Sendeze Electric Co. Add Parker St. Brights Mais Songarios Electric Co. 1901 N. 193 Sr., Springfield

Spec Valleto (ell stato St. Comb blys Stea. J. D. Sperger, Assembles (ES S. Oceanis St. Sp. Startist Corp. 70: Spring tald St. Drybn. Div. A Discount Co. 180 Philosophys. St., Spaces Dander Sport Co. Sereta Hits Colf. Daniel Sec. Inc. 200 N 19th St. New York N. T. Danner Frenchist St. Berkefelbe Flore New York Schilderen Com. Most Selbote Co. 10F Workington St. Albertonium Chested One Distance for Interest on Sell W Bellin Ave. Reselve Mr. Aug Co. 18 Coder St., New York, N. Y.

S. N. Bergood Co., 4647 W. Annier St., Olderson M. Annes Separation Co., 50 N. Participant Hard, Deputer, H. J. Susannely Postern, Edward & Edw. M. Y. Lok Shandi Ca. Belleval & Edw. Ave., Belle Deputation, instant are the work fated Allian. Schools Electronics 1485 S Chand Are. Serves

Admin that her two after 5 few for the State of full W. Ademic M. J. Mannak Phys. Bulletin oft H T Street FO Bis 141 Drive H E 1 N Schwarz Englances, STS Maddington Shell Okogo, 15 carder Associate, 2002 I Project Mr. Advers

Set Ariellas Cop. 1314 Dayer Ave. Servede.

Sanks Coats 2001 E Admit 25 June Perch.

19-34 Stewarts, Wast Steen Concessor

a Laboratolia Sedelor Cold August Co. 2000 Secto Highway Son Sees Ohio conditive Supremong \$200 Calendary Hot. Lin. Angelos Crist Angeles Crist assets that, I dd Agrana St. New York Con-

And Administration for the Person of the Per

Specific only Albert Links Monthlery II Secretary Reals IV Co., 35 Nr. Harth, 31, Jouleus, Also Aproiding Co., 42 Frontile St., Brakes Ann. Spacial Parameter Stranger Stranger Str., Str. Mt., Harwood Cons. Spring Subsection 25 Vandaded Ass.

ANSATION WEEK Award 6, 1816

China Sentences (10 feet 5 feeter stern

No. 8. Y. The new Strong: he Sal Sourt St. Sector Pro-sts Salama Sons, 45 E 19th St. New York N. Y. Rydynk too. Eller Bond Pt. James N. Y. Rydynk Salamay Co. 184 Cannel Mar. Postdoll. O from Corp. BEEL H. 370. N. Albertan

Could have seen back too Chestand Shor

N. T. I. B. Belle Ivo., 327 W. Hayerler St., Syronous, N. Y. And A South IV Washington, No. Workloaders,

Secreta Submerston for a Preson Second Vancous Col. Ex. 13th Secretary: New York,

He is resorrised as an ollowerstast link between industry and military... believe to A CHICOP

which assume the coudity of entirery electronic

the contributions of "this man." He is the bond. core of privators and corner engineers serving

the Department of Defence as Bulon between problemy pool and industrial accomplishment

the man hehind the man

is hall THE PROCRESS TF A M

gardade. FIRE CONTROL MADAS

-COMPANIES IN NO. PRZ53

Process is the Most Insurant Product GENERAL ST ELECTRIC

ARREST ROAD, STIFL R. E.



Bendix 2-AXIS FLIGHT SIMULATORS ...

have for ever 2 years been improving perfectioned and catching design bugs in our amonal of planer and guided missiles . . . and without expensive trial fights. This combination of a receive analog commone and a bigh nerformance Stavin comseveral test table revealers the response and resolution that tomorrow's flight control systems demand.

Complete technical and applications does sent on request

AVIATION CORPORATION

SEZO ARRON VITAE STREET LOS ANGELES AR CALIFORNIA

devel Ohlo Serges Brets Inc., highless Sr. Anders We. Serges Statemen Co. III Serge St. N. Adem. Star St. Co. 2014 Surest St., Choosest Obio por St. Co. 2014 Surest St., Choosest Obio por Ster. Co. 2014 Surest St., Corpus Obio March Carlon Co. 1942 Tutney St. St. Horse,

States in State in Nove Web 7s

of Alle Co., 1988 Comparis, Belley Tax of Maleting Co., 1987 F. Wood Co., Septe in inplies Cell Sendord to State Sta Final, Colli.
Standard School 1990 Dellas St., Burran, Colo.
Was Standard Standard, Standard, New Furt. N. Y.
Standard, Managements, St. St. Standard Manday Co. Mandagh N. Y. Sarrand Manday Co. Mandagh N. Y. Sarra Salandary, Sov. W. S. 1985 St. New York

Defroe Laboration, No., 1249 W. Charalle Ped Parters September 1995 W. Columbs St. Date Bro. Min. Co., LtD. W. Joshum, Oliveyo der tree Co., Securified Mr., Union H. J.

T. E. H. Stock v. Co., Bridgester, W. Y., Teles Indiana Corp., M. Tarasarondo, H., Color Marchael, M. C., Stocker, M. H. M. Sinisted and Co., 200 South day. New York

him then to this fees to Humber Conhelps the part in a 78 from \$1, 5 milder, N Y have been Marketing for homework White Street Reports Mich. Securital Reports Alexandral Reports Ale Fresh French 1530 H. Auer St. Silver City. N. H. provincial St. E. Mohre, Mohdan N. J. P. Barren Co., 160 Eventury, New York, N. Y. E. Barren Co., 251 W. Salfi St. Controls Older 1 Durley I Security testing of Fed-Plea Co., Novembrane Po topics done di Ninghton De Partiere ing In Wharton Iran Banton Fo. Louis Muripust ISS Footnoon Ed. Heatmanninis

One States From 1985 N. Reday Ave. Springer Deployment Schot 1144 W 1250 St. Sans Say Son Int. St. Added Name Bradden, N. P.

Submitted that Street St. N. Notice St. A. N Almantica, W. Tantes, N. J. Pens Co., 150 N. Surseyth St. Phil Con-bidensia John Je Koled & Washing H F bidensia Gro. 1485 Wrightwood Are, Olinqui de Openius de XXI Bearbury Serie

N I Superior Anna Inc. In Sprayer & Suyers, Otto Superior Stanfor Co. El Souvel St., Street Com-Sous he Pape Operated No. Shirt Com-Sous he Pape Operated No. Shirt Co. No. 7 and M. College States For Peace Co. Cheside Swamp, Non-York, N. 7 Sance See, and relig. FO. See 4891 (Seller See Some Sellersman). Siller Seemen to Seller See Olds Suress Daniel Antonio Nickleston S C Suresson Mts Cr. 177 Michigan St Michiel Angeles Cold

6 Security May Co. 1688 Shell St. Derver. Color
until Industria. IS Love Links Brothles. Color
until Security III 2 State St. Section St. J.
electric Security Security IPO Securities Security
Security Security Security IPO Securities Security
Security Security Security

Cas W Ferrence 765 W Lans St. Colombus

CONTRACTORS

des A. I. Cribayo Medeville Torre on Corp. Her Ave., Tenne. Ple Buyeng Iva., 1870 Apringhalel St., Onles,

y Brad. 21 S. 27th St., How York, N. 7. Soulus Belles, MAZ H. Brelles St., Philosophysis.

Tiefes Inc. 20 Autophysio Am. Perret, H. J. Notes for fact to 1800 Water for fac-Cold Terraped Austriany Co., 2020 Senio Re Ave., Inc.



NEW CHERRY "700" Aircraft Rivet Gives More Effective Festening

A new manuellisative featurer for nebbly and unabsculy. When the '700' rivet is set, the stem shoul.

> sories for applying them-all of which are designed, developed

This plant is devoted suck-

For information, write for the

new Cherry "700" bulleton to

Rivet Dremon, P.O. Box 2157-N Santa Are, California,

m Sergio Ana, Colifornio, Desigauted the Cherry "700," the new paritive hele fill, high offsels, unarivers were the desire provides

The manner in which the "700"

CHERRY RIVET DIVISION

Townsend Company

* CONTRACTORS

True flow and Co., 4d Feldy H., New Pork, N. V. Trowich Inc., Cliffold D. Sentin Man. Truth Aye. Co. Leslan Report, Moder N. J. Trief Cor., 4523 Sentiment Serie, Sent Date. Colff Stributes Co. Hat & Relation, Carlonali, Olda Strong Ade, Inc. 482 Supplied Blat. Burney. State Co. 1970 5 to Angele St. Lee Angele Cold to all Come New Cords that con-one Sense loss Seebend singers Seebend sense was World Addings 10 Selected Mill Known Cyr. No. Street Street Street Street, No. Street Street, No. Street Street, Mar. Linkson Printer, No. 31 Sect. St. Super Mar. Luminos Parterio, No. 31 Sect. St. Super Mar. Luminos Parterio, Sc., 487 Sect. St. Super. Area Secured Persons Corp., Same N. Y. Turnbur Stagman Co., 200 Made St., Hardway Tendo for he Names Sri Describe had builtin find Co. 238 Febru Sr. New York M. Y. State College Particul Cont. There's Servers Are, San Andreas, San Searly Servers Are, San Andreas, San San Waldang, Sing Silley Searned St., 1997, Adequaryon, St. at Market Sales, Sales Anne San Link Sales, Sales Anne San Languise, Calif-calor, San Carl, Edg., F.G. San Sall, Anathras, On Tarks College 126 Northern Are: Apathoni Anno. Turks College 126 Northern Are: Apathoni Anno. Turks College 126 Northern N. de.

6 and 5 hopely, inc. 400 5 West Sty. Spenner. N Y Rebort Steam 2776 S. Alemaio Ata, Derrori Col-Silvannia Corp., 445 Agencial In., Cambridge Age: Sedemand From St.M.S. Stanfall Stad. St. State. I threat that to \$500 this to because, he have short in New York In Y States Co., of that America. Colff Spring Dark Co. of D W No. Dr. Les Amprim. Colff Spring Sp Date Selich & David 1979 S. Steam Switzerle. Sections in 199 Contact Bills Section, No. Security Section, 19 Section Section, 19 Section Section Company Contact Section Section Contact Section Se have Older N V United Dayloune Connect, Anni-Boiled Septemb 150 Constray St. Steel Anni-Dated Ometicabel 1588 5 Microspe St. Panelson. Stilled Sale for, Seyen Skin. Stilled Sanadachering Co. 182 Wheeler Stor. Nov. Rose Con United Stee Reducey, Secule, Heat U.S. Sycamor Cop., 1248 Calculus, See, Broken, U S Bolton Corp. NS Part St. New York N T U S Bolton Co. 1990 Ave of America. New 2.5 Security Sc. 10 for him Admin. One 2.5 Security Sc. 10 for him Admin. One 2.5 Security Sc. 104 Fritz das Baltimo H. J. Shoot Fronteine 100 Verida St. New York N. S.

to some refuser Chinese III objected by the control of the control

Serverol Sedo Jacob Cr. 1799 S. Lee Angeleo. Lee Angeleo Cell. Sedower Deel St. Sf. H. Leenen Change. IS Serverol. Working Cr., 1659 Elsevel Ana. Standard of Alicha, Callege Alicha Sandard of Alicha, Callege Alicha

Benearly of Atoms Home (No. Benearly of Atoms Proposed Arts Benearly of Atoms Proposed Ad. Benearly of Bot of Colonias Vanesses, Con-Binesity of Royals III Amoust P. O. Benearl Burst, Belgian. Except delpton Delwardry of Buffels 2023 Name 24 Buffels N Y Shirebarky of California, 2011 California Reli follows, have below full. College, Super States Coll. Alongo, SWI Killis Assa, Orongo, III Controlle, Burnett Words Forbury

And Serbandry of Darlow Bustom, England Stimuley of Finance Mittgage of Florence, Itely Understry of Finance Datespelle, On Stimulating of Security States North Comments of Marchall Principles of Millers, 1901 W. Grann St. Lithers. Del-marky of break-risk beginnek, Arrive Bellemaky of break break Cate, break Manager of Ballet by Cate, break



Occurrency or New Mempublic, Oarlann N. H.

Alternative of Peter Mexico, Editority (IS),
Alternative, H. H.

University of Health Conflict, Chrond MSL, N. C.

University of New Street, Nicol Obstacl Ind.

Nationally of Shirbonic Harmon Chic.

Nationally of Shirbonic Harmon Chic.

Street, Se. Victoria Street, Propins Sec. 2 (). Street, Street, Street, Street, Street, Street, St. 1. Outcomes and Street, St. 1. Outcomes Statement of Sealer Statement Con Season Consule Statements of St. State, 1602 2 Great State St. Sinch Min. Stranswirty of South Condition Colombia S. C. Strinswirty of South Conditions, 2018 Sourcelly Alex Ass Angelon Cubil

Committee of Dantes Switze, County Warrends of Dark Sell Calor Clay State Witnesday of Manhagers Stein, 13 H.E. & C. Ab. St. Santin, Work **Cherry Adds**

Aircraft Lockbolts to Fastener Line Lockbolts for the sportft induswhich are desirned and produced

shope and tension values. Petting-

of the Scata Ace plant-experi-

Cherry Rivet Division, P.O. Box 2157-N Santo Ana, Coldings. CHERRY RIVET DIVISION

SANTA ANA, CALIFORNIA Townsend Company ESTABLISHED (B) . NEW HEIGHTON, PA.





A copy of this quick-reading, 8-page backlet is yours for the asking. It cantains many facts on the benefits derived from your business paper and fips on how to read more profitably. Write for the "WHY and HOW banklet"

McGrew-WIV Publishing Company, Roses 2710, 330 West 42nd St., New York 36, N. Y.

CONTRACTORS

Salvandry of Wast States States, Cornels States of Wastern States of Wastern States and Sec. States of Sta Here thereafty of Solds, Solds, Subjectional J. C. Otton Steamy Co. 6717 Maleria Son., Maler

Y 5 Engineering School Barth Call'

Calif. Variety Associa Corp., 2801 W. Theri & J. Danton. Otto Nam Association Co. FO Res 400 Oarland. Too See Darley Co. 277 Anchot St. Sowish M. J. Steiner, Co. 277 Anchot St. Sowish Mr. S. Sowish Mr. S. Sowish Mr. S. Sowish Mr. S. Sowish Mr. Sowish Mr. Sowish Mr. S. Sowish Mr. Sowish M

or hard Co., Okay Par treat Statement Co., SMN Hough St., Clark. No. Businesses Co. ... Apringlate Rend Was Not Cory. 10 Colombia Copt. Here's, N. J. Note Corporation at: Assesso: 109 Wolf St., Here. Note N. V.

Water Core 107 Cord Pt. Swidter N. T. a Manta Sultantal III Serior Droser Ohn Spring H. Wolsman 1933 S. Boltomer St., Bult. Makes Pendajial Co. SP Non St. Wellton,

DESTINATION... UNKNOWN! Excitets to points in outer space! They are more than Bight new, AC correspond, together with most of Assertes's tap rescribets, are hard at work developing electro-nechanical purisant systems that are Frederical Not at all, AC has built a world-wide





TWA and Delta Air Lines buy 40 new Convairs

GENERAL ELECTRIC JET ENGINES

New plane to cruise at 609 mph, serve America an 200-3000 mile flights CONVAIR JET can for from standard

from the runmany already standard in togged till and one tild trapion fours if such frames secreft at the Books B-40 and the North Assesses P 55 Sales FARMSHIED POLICES of U.S. siches SINCE 1945, when Denoral Electric -bresser, for excessio, Kernes City

Progress Is Our Most Important Product

GENERAL 🍘 ELECTRIC

Electric Company, Continues 15, Ohio

POWER WORLD'S FASTEST AIRLINER





CHITITADENIO GENERAL MACTER PACCOLO FOR JET BESTE PLANNITY DESCRIBED A AssessOV dest jet region, and automat through the self-department of the FF (and show). The G-E appear for one Contemp at a consecuent serious of the FF (and show).

AMPEX TAPE RECORDERS FOR EVERY DATA RECORDING NEED

A complete line that works together with compatible observations

VERSATILE

MORILE

DIGITAL

REPEATARLE

DEPENDARIE

ER-100 - Occasil nuclears on energications are the

6-tiger species (\$\tilde{x}\) to \$0 as less \$0.00 to \$00 till applichent. Anaparenty meaponent, closes of 2 reversions annihole one any treets by plug as minerchanges also amplifices.

800 - For flishe test data requisition this recorder comhims excellent performance specifications with regardness, correctness and light weight lit is also recativat to

FR-200 - This respectic tope to report faltills the feet students recruments of distal herefore it also non-

6.359. The endies true loss handled by this trumsport never a number of special reeds: then delay, reposing

Available for Q. N or I such tape must tape assets, bands and other alterestactivities or 300 SERIES - Three are Ampro's last established I'm For many applications where the great verselflety

wides high quality performance and great reliability at Anadalis to review types of recording 10t for pulse which medicales; 20t for PM sender proveding 60 for fired providing size professions



State Officer Albeit, Despe Bignibuteur Fachanul Appropria Cr., Breinn



Worse Manufacturing, Inc. 4 Sender St., William, Without Street Frency, 2nd 25th S. Zin S., Chrombard 1984 Words In. FO for 40 Object, N. J. Woods Stringers Board, 4th April - Broad

France Celd Spanned, St. Wayne, but Spring St. Spanned, St. Wayne, but Spring St. Spanned, St. Wayne, but Spring St. Spanned, St. Spanned, opels int Webbs Gott Co., 1993 Biden Sood Claubert Water Assert Co. 1985 Cheests in Statute

Websel Chines Co., 922 Encountries Ave. Chicago 11 House St. I Service Ave. Nicolandar Jos Walnester Inc. 1993 W. Bernfeld, Chause. Western Statements Co. 1981 Advantus intelled Statements
Ann. Statisticals, Mrl.
Statistics Indiabate, Statistics Indiabate, Schools, Sand
N. While Meetingsung Co., 1973 N. Sedpools,

Serge H. Walter, 199 E. Club Dire. Earlier. Ohio Walle Gardiner Co., 2016 M. Mildow St., Chicago, Workers Corp. 100 Walnut St. Philosophic St. Workersh Indiana. 250 Hardington Ave. Science. Maria. Warry John Str., 25 Franci Street States States. State St. St. Marian Str. St. Reason Str. St. Reason. Marie Michaely Halferton Con-Wart Corn Barris in NOV W Address Flori

une depen. Calif.
Wast Conel Seasons, See Angeles Calif.
Weekbacker Introduced Co., 100 Calculus Are. National N. F., 120 Streetway, New York, N 5. Wester Sent Works, 1900 E. Impact Highway,

Westford Reconstratoring Co., 119 W. Carrier St., Country M.Y. Warrant Corp., 414 Sullap-Wood Sale! State Book, Women, Mine: Widow Sales Associate, Side Charge St.

State and City, Cult's No. 10, Sec. 14, 14 Sections, 10 Sec. 14, 14 Sections, Miner instead Wise, 150 F. Annue, Waterburg, White Services Photos Co., 1977 Core St. St. South With Solve Corn. 455 W. 540 Sr. New York. Windows and Co. In Angeles Colf. Militar Anni Wickey And Dris, Windowskey, Rave, Wo. F. Whitten Cr., Fill H. Cless Ann., \$44 Mageliar Call Winnels Supressing Co., 200 N. Related No.

Parentee Cell
Was there at Protection W Springfold, stop
I P Magnet Of that, Selle E Object Sell,
for Angele Cell
Without Seller Co. 1 600 Chapter St., Servan Chy. E. J. Wilder, Dr. Bedford Dr., Waldern, Hon. With Personal Instrument Co., 4827 Belleville Stee, Bedford, St. Mill Face IV Street St. Sadouter M. W. AVAILEN WHIC Asset & 200

Seed, Olde William And Many College, Williamston, No. Andrea & Milliams Co., 107, N. Sarandari, St. to Region Stem.

y W Warnell Crowdish left Combridge Septembles Com. #15 Food 6: Contract District States of Contract District Exposuring St. 165 E Colliscon St. Scotter, Call. Wanted Chemical Corp., Albell Square, Water No. Other Witnessen Hou outs NOT. Ward, Subcontactor, 200 S. Cannott Ave., Soli.

M 1. William Control May. Sund Williams, Fir 5. Hoden Ave., Passabre. Criti.
Pilloris, Inc. Circlasoti, Stic.
Pilloris Sensis, SSI Sen Armeio Rent, Into Alto. Great and Inc., 6005 Barrer Scot, Schols, Winese Inc. 20' Water Edg., West Inger O C What Shreet Cr., 1915 Verdida Are, More or Mr. Miles Co., 426 University Ave., Meer Bods,

Value I, Value, Francis: II Westpole Seconds, Inc. New Hillard, Com. Wind Sound Institute, ISS Randows St., Randow, What Submit Co., E. Market St. Recophosis S.A., W. Florida, No.

Are. Wittfreed Corumer Co., Bothloof, M.

ton Stand will December Drue, Srie, Fe., oto 79 with St., Somen Steen Assumptingle Months Germany & Ognani Ca., 200 Stylets St., Montagnet on Ognan Ca., 200 Stylets St., Montagnet And Stanbert Octoor Stringfeld, Okt C. F. Welle by, 455 370 St. Scotter, N. S. Williams, Spirit, SN Freine Ass., Sciago: Name Districts Iron, N. Y. Ward Sand: Newborgert, Name Ward Sand: Newborgert, Name Wards State Sannerpaper Intilizes, Wards Hole

th Plants (AR W 1996 S. Suntana Calif de Audio Corp., 100; W Outers (Moraya III A Sandra Corp., 100; W Outers II; Married III F Parity 1965 Paragraph for Promison Callin

CONTRACTORS

Weather for, 252 for 28th St., New York M.Y., No Salver Assessed Inc., 128 Connect Read, New

Tale And Street Sandardolog Co. Seconds

Con-Nazione Sharely Co., 42-50 Learnest St., New York,

No. Series, Add C South St., Conference, Otto Vision Development Lab Fell Res A, States Will,

Vising School Cr., FOR S. Manualle Series Wil-Vising School S. 1996 N. New York See Sed-olis City N. Transplant National Sep. Co., 2788 Octowed Arts., Transplant, 6749.

M. F. Salvan Valley Spring Olds. St. Philosophia III is the Anni Co. 21 12 William In. Philosophia

ASCOP SWITCHES PROVIDE ZERO DRIFT

OF DC AMPLIFIERS IN GERA ANALOG COMPUTERS The ASCOP Type H Sells Companie

result that date from QUDA is asheredly expended date from QUDA is asheredly expended and reliable. The Type M is able that for other application where a retary compansator of high quality is desirable ... and

is but one of over 200 processes ASCOF constant for a wide verify of approcesses designed by the landing monetostypes of noisny propring collector. With the APPLIED SCIENCE CORP. OF PRINCETON E.O. Sra. St. Primates, H. J. v. Melechery 3-4147



The "toggyy" never had it so had durouslid infiltracion of our sities by their manned arrests is directing away to the point of no return—thanks

since transfers advocate, in interacting away to use power on to retent—mixture.

The shells, superviser (Riyryr) has now engage, "Monthaphana Auro 11 armanani central systems, Arm 11 complays wared-track makes to find the largest," The recognizer collections the best storic covers and formg interactions. The rest is weekings, "Whather and monoism might make in difference, the contraction," The rest is weekings, "Whather and monoism might make in difference to the rest of the rest

The Auro I Surmanusic central system innoches exacyle of Westinghoss centre engagement to salve taday's problems—and tonamové application as well. Information and engineering assistance in specific fields of serious electronic systems are scylidable to you from Westinghouse Electro Corporation, Air Arm Division, Frenching Inspirational Auror

DE AR ARE DERRAS PARKY
Fighter Agramment Somber Delense Fight Control
Mainle Oxidinos Special Purpose Systems Companients

WATCH WESTINGHOUSE!

Unique barrel-type peckage fire peckatly in the non-of-the savout.





noncred accords above has not a new unefficial marid, speed record of 1,990



STAINLING STEEL at the control from which Bell X.2 wing and had one deletional. Other X.2 (Where are on pages 72.75), X-2 Hits 1,900 mph. to Set New Record

by a 15,000 fb. throat Curbo-Warlet

b Copt hen Kacheloo Ir. s wt

Guided Missiles Bar Disarmament. Complicate U.S. Task, AFA Told through radio that would office in en-

By Claude Water New Calesco-Introduction of profel words at a tool of war will make the wheate she had in Leenans U. S. malitary

At the commission weather on crimhe lopeter, Con. Edwar W. Rawlings. dust of the Air National Commend. deat, which recolorated refferences or

SCIEN Moons New Fre-

power, nor Egypt In such a case, he

Missile Present Casts It also was pointed not that, since

Another noutbility cond by Welhowece is that of defense radio becau-AVEKTICH WEEK, Assur 6, 1956

A NEWS OF THE WEEK neophly has and meet get the countril

Relience on Management

AMCs wh want he cread to full one

lene question of estigated com-



Lockheed X-7 Tests Ramiets Lastified X7 coverage most test sobute for been used shows the last few years for

development testing of Mercandt counts for the Borian Bosque on delayer month (AW April 1), 1961, p. %. The X.7 is at hearded from a S.19 and cloves to approach terforce could give the immercial but other minute components. Mon X7 field terforc has been done or Hollands AFR

Shock Wave at 18,000 mob

Now come model for m KIDM forms a shock was as more as a shock table at a second of

90% of AMC s modification and over

Schriever Speech Canceled

Western Development Director, was schoolded to oppose on the program with Lt. Gov. Thomas S. Pours. APOC commander, and those other AEOC praceds in inunclassified discussion of critation. His name was protected without residentian about the contests of the poor Ges Scheece had prepared. The first in trice of Reg. Gos. Dos. O: Orrandes. Cen. Pover's matter for pushed numbes. The Postsgan sho was expected to feel that, if Gov. Schower assumed at the Nov.

Odense secring, it would be difficult to dose fature requests for his approximent

Badford Skeptical Of B-52 Increase

In testuality before the Scarte Acr

olded "that there will have to be an

Reflect and "The maletic deals

. U. S. atenaio vennon contribity is

THENLOCK contented to USAF Indexes.

Pending Test, USAF Drops Fastener Order Feeder correlation of some crisi-

AFB. Chic

soughly for a mechanic to fluid. No and Packmayr Corp. Syther amphilion of \$1.7 believe, and constants under nostor. J. Mally Survivors, necodest of

Frenk Pickeyry, mondant of Fush-

\$500,000 or perfection the Terribel.

First Half Financial Reports Are Mixed. But Generally Favorable First half amount horizoner to five net income to \$4.4 million from \$5.5

from the victorit understy persented a mallon parties of discipling perferences with . Republic Assiston Coop Effects of the foer month state that ended in home wine inflicted in a date

. NEWS OF THE WEEK

hon from \$2.5 celling in the used sial business or substances of a factor. derted in the third questic Republic

washed or a saloud to the Follow Concreament of \$1,877,164 After adjust

steading or 50 cents a share often the . McDownell Aircraft Corp. As no the Social Accord Co unit. norther routh. We contributed to makes to \$67 willow, or from \$1.5.

ion as the 1955 period and company includes a 138% receive in manufacture of the 1965 period and company includes a 138% receive in manufacture of the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company includes a 138% received in the 1965 period and company in the 19 + Solve Airport Co. half not uncome was \$11 radians, ones paged with 68 3 million or the first half with the taxonics an output com-

but Baten custour to the Corner or

Diverse of the Touris As Force Base lane countried with SHJ william and success of 21% over the persons you



Cessna 620 Begins Taxi Tests

To Prepare for Initial Flight Creek's Madel 420 fear creeks. W. H. Stoney co-olot with the to-We will fo the amine often we the \$100,000 mass (AW Ago) 2. motels 1 (00 feet

retraded in on Askuranth stat bubase in the all faidnes were tested. oloted 4 000 porter or Merch exmodern, completed in additional 100 . Tokenfi distance ever a 50-ft obstacle . Landing distance over the same ob . Rate of chiab at sea load to specify- Manhama range is 5.700 aut or more. · Independent at 45% money will be

. Takeof goes weight a 13,650 h.

· Span and length are 55 ft and +15 • Wine keddar is 40 1 lb as fo · Power bushes or 10.6 To he . Fundage height and width is 50 in · Overall beight is 161 for

• Fuel consists in \$15 mil stored in C-130 Drops Record

Loads in Delivery Test Armel stells on Armer of the Lord hard 2 27,000% dresses load of usu and 25 Type A-22 exchanges weighing

other are the lawret makede load

other by neurlate estatem or tilta year ender worker wreturn voident 7,900 h, m confession

News Digest

BOAC will buy Books 207 commonly

Twestylive pastronen made the President's Airways Request Cut Washinston, The Florer of Renn. unitaries, is a final action before the

· Prototype Testing The House fixled The Sepate, after orangely votage menor Committee, which would an-

radius calkage of two arkness over * Assessil Postage, The Senate Past . Alaska-Hermi Andres. The Pres-Nike The Army was voted appared ratter SHU redien for new Nike on . Re-ownpoint Fannahay, After pro--or in effect killed-levidation that

tot fight lest week. Felland chief tot Generalization Substitution in 1,000 to should Commerce and six ber, \$28,000 (from \$15,000), Separtury of Defence, \$25,000 (lines \$22,500).

Bell Alrewit Corp. stockholders voted to establish Dislocator Discours on Ft effects and the cambalor of secure sortals. Delegae Desarbaged accords advantagement of Co.d Agreement co. \$250. suggesting componentiates where were an

BCAF been tests of Seechers? extracted by an anchor has an the six Nacinal speciality has been bard by copulate. Engager is Fred Good

> Republic F-905, christered Thursdo rises in Accorded by company as buying

a NEWS OF THE WEEK

to work streless frite reward value by

will build concerning ration for 179 burbled carrier at Torse Heate, Ind.,

201, as a flare there maybe more sold mindly book into the sock's atmosphere at Foresh AFR. The test ustanle is fired.

AVAIDON WEEK, August 6, 1996



The remarker depended durface The report did not recoverage that report would that in corcetive order. such as that which established ACC



Passengers Board East German Airliner Two Bild subsets with the owner of Dentsche Laddown, the East Germanulos, are public

riado to first of Cornar 900. Takes are readile at one of cornells over some consumers.



Convenu was also taretly supplicated

Danas the bearner, Charles Lower, seggested that the CAN forces plan

AMATION WEEK, Aspect 6, 1956.





The emphasis is shifting corner first-ofter which a mobile container is decisioned that will corre-

It used to be that you would dealer. on airfrage for reviousl-and necvide asistense required instrumen-

at with prestest efficiency. The shift finds the sturdy shoulders of Stewart-Warner Riestropics The ecophasis as shifting. Wagner has pioneered in electropies ale reidence and identification, the for thirty years, Today, S-W Elecpalls the borse. Instrumentation

1300 N. Emiss Ave. Object 21, 25,

a NEWS OF THE WEEK "must not be used to multify concern

member of either body while the Detester fast suffere, so out other Terre Disnete

The WOR/DME Taxon departs not war and direction of relation mobiles of The horings, which began have 15.

CAB Begins Hearings On Mid-Air Collision

um the TWA Some Counteflation and United DCJ college on hore 30 while they were drawn on U.S. Hiele The Siefen wated outsi their scham 10 before they contacted the CAR

Buth surposes and the two simpleses. which Mr Siche untraffice or know as the face and DCO types, appeared on a bers, between two laws should form the asphage collided, then recovered no make, fames or debus abor skey

fice stack teacther" ANATION WITH Asset 6, 1956









gives you nositive lock greater grin tolerance higher strength

· meets MIL-F-8490 · positive mechanical look (not a · higher storagth universal grap conjuntors . · often more contention, superi-









introdige sperings and bits is reports, sheigh, included the signature. baston-SS I million after tours, or come measures traffic of 1 561,000 was a éncerrunging que • Autonotive controllers \$

Washington Alternate At Baltimore Studied Washington-The Civil Appropries

Four aidons have used first held

Coefficial Arrest per receipe in

Oncurred revenues total 59 million.

AVAILABLE WEEK, Aspect 6, 1956

the feet held of 1955. Operating in

. She's Airways Inc. reported a net on

very \$4.6 million. Shell carned \$7,500 -1975 Military contract and observe operations received torse 440% · Appoint Airling and comings for

956 period totaled \$1,914,000 ton

analysis \$100 100 the new half of 1000 CAB Fare Beview Is Limited to Trunk Lines

Washington-The Grill Association The purpose of the investigation, no-cooling to the CAR, is to evalue the

AVAIDON WITE Asset 6, 1956

or too little. If the CAB decides facet



the challenge of the unknown

EMPLOYMENT OPPORTUNITIES

Within months. Martin will onen a new chapter in world history with the launching of the first of a series of earth satellites.

unknown, remember this;

No other ensineering group in the world will learn more, somer, about this final frontier of scientific exploration.

If you think world He to so alone, contact J. M. Hollyday, Dept. AW-68. The Martin Comnany, Bultimore S. Marriand.

MARTIN

DESIGN & DEVELOPMENT ENGINEERS





POSITIONS EXIST for a few engineers with 2 or more years' expensence and mature engineering judgment to work on the design and development of low-weight, high-power

GENERAL & ELECTRIC

free level is line with a reconsible livel of earnings. The general free apostopiton was

The general first speakagettam state and early a few memory general few from Consigner The Books decided on the most Consigner The Books decided was the state of the state of

CAB Asks Suspension Of Four Irregulars

Washington-Superions of the operating authority of four large hergida Centre in refield in the Taina American Author occubing his becomes four to the Confession of the Confession of Complaint.

The Complaint Office and the conrest should be ungented for contraved outhorns of a CAS wife sweet in

design to led quarter of 7955 and 6 for har of 1956 CAB Borrows B-57 For High-Altitude Study Wadangtos-The Coll Account

For High-Altitude Study Wednester-The Cold Account Administration will occure a New 8 57 get homber from the USAY can tree this mouth to help in the reof hash-offered on traffic search

The 8-11, which will be specially partnershed in the CAA Association and Carter at Oklahous Chy, will be placed as operation around Oct 1. Rt will be much to evaluate the effectiveness of analysisms and, continuous-boost coupriests, what and fulfill-control procedures above 13,000 ft.

ANALYSIS WIEL Associat A 1256

ENGINEERS

Be certain you

MAKE THE RIGHT CHOICE! HAVE THE RIGHT JOB!



EMPLOYMENT OPPORTUNITIES

ASK YOURSELF THESE QUESTIONS -IT WILL PAY YOU.

CHALLENGING OPPORTUNITIES

INTERTIAL SYSTEMS

COMPUTERS
(Digital and Assing)

MISSILE GUIDANG JET ENGINE FUEL CONTROLS



MOTORS

Corporation

Milwankee 2, W



Whether a forced Gradums making his first delice or a veterior Engineer making forty parameterly SCAT passion, advanced the following questions: MY TALENTS ARE BEST SUITED FORT
Laginores come all tests, abones and potentials G.M.'s policy of

At G.M. these two questions are best ascentred by seather question—"Blow lark in up?" Environs both present and datase

STARTING WAGER POTENTIAL EXPENDANCE

PERMANENCY OF POSITION WITH ACP

Write an advanced school ... I VIOLE PUT USES DEPOSITED STATE OF A CONTROL OF A CO

David send u as a loose dag.

Cop Zon box

AVANTON WEEK, Aspet &



· Protects. CDL offers entercords to look the

EMPLOYMENT OPPORTUNITIES

dvnamicist... stimulating missile

by the problems

external and internal

of farks

at too level in this with a world leader in electropies Ideal Year conditions on Florida's Central

To assess confidential interview, sand resona

ANIATEDII WILE, August 6, 1994



He makes a daily trip to tomorrow

he is interested in baseball, talks about texts, in proud of his high. But there's acceptance different about this he leaves behind the world known to his friends and prickbors and crosses the threshold of tomorrow. For the whole industry is on the threshold of enecuration unities and excitant average of endower-withfree electrooles, election, reliables, structures and many more...

And this may, like all Goodynus Alexant confinence.

They're doing big things at

ANIATION WITH Asset 6, 1996.

galdes bitmedf along his chosen path utilities; the reset numbers for littless perchable to put his man ideas to work. and lifes are a princ commedity and every one sets a chance to mature. Here envisores, in transferming fice of creative challenge and the satisfaction of profisite

and confidence in your ability to make them work. there's a challesofue conser untiline for your t Gardenia sion of our engineering stuffs at both Akron. Ohio, and Salaries and besefits are, of course, laboral. And if you wish to continue your anothers studies, compare and

able at nearby oxidence. Goodern Assessed nother Mr. C. G. Lener Democrat

Dept., Goodwar Alterrals Corporation, Altrea 15, Oblo.

GOOD YEAR AIRCRAFT

stones

WHAT STEPS ARE YOU TAKING TOWARD YOUR GROWTH AND STATURE IN THE FIELD?

st. servides univelled knewledge of the field. ARO, lose.

cells of the Arneld Engineering Development Center -

SPECIFICATION WRITERS (Technical) Cookings of Military Specifications and prouse repeated Standa by Lendon with ng experience of learned expensions of them is desirable

INERTIAL GUIDANCE SYSTEM PROGRAM ELECTRONICS DIV., Milwerdone 2, Wissay Challenging Opportunities as the

New Place facilitate being solded in rober bon Milwooder sers GM's Sirestown Devictor aggingane your size in the field of manufacture and GM's logicalizables mellay of electrostations

Recent EE.ME **Graduate Inquiries** Also Invited

Minusher offen ideal family know an

To agrange personal, and destud successive in some locality and full facts about your Hr. John F. Hellinger

rol Motors Corn Iwoukes 2. Wis ANATION WEEK, Angel 6, 1998 TREMENDOUS, NEW FIELD OF OPPORTUNITY



NUCLEAR AIRCRAFT DESIGN AND DEVELOPMENT

Converse in See Down offers shallenness and very averaging montage to conferra and actintute in the long-range program of development. of explor postered aircraft for the U.S. Nevy. Graduate Mechanical, Civil, Morine, Chemithe important popular of construction and operation of NACLEAR REVELOPMENT PACKETING Arrodynamic, Dyonose, Hydrodynamic,

To you this year term within our entireer's corio cercar department, write at once. Address returns to H. T. Brooks, Engineering Person-

CONVAIR O A STRIBUTE OF SERVERAL STRANGES CONFERENCES SE 2202 PACIFIC HIGHWAY + SAN DIEGO, CALIFORNIA





George French, South Strong Engineer, South "VERTOL OFFERS Exciting Challenges and Unusual Opportunities in a New Field of Aviation."

To addition to assess the field to the law their assessments with level environment streft, VERTOL has a PUTURE unblos any other in the solution . . . of it field to BOTH least room written and great things in the occupantively new field of Vertical Take-Of Internated? Well, was should be ... for ble things ARE harmonise here at VERTOL new! Enough, in fact, to warrant a steady,

Why not investigate the engineering openings now available in

DESIGN - POWER PLANT DISTAULATION - AFERDYNAMICS - DISTRIC MENTATION - TESTING IPLIENT AND STEUCTURE: - EQUIPMENT WHEREIGH . CTRESS ANNIVOR . TRUNCHISCORY . ADDRESS. Send your resons to FRANK COE, Mgs. Proposed Engineering



TECHNICAL RESEARCH CROUP

Senior Level Openings Solid State Physics Resilier Systems Reactor Shielding

Serveral acceptant over puers specture can choose from shadden. There and other ride opportunites for divers-

duty and the opveragent, whom are at the FIO ferri

1907: efficer behaviories. cored in New York Chr.

LIVE RETTER AND ACHIEVE MORE IN SUNNY SAN DIEGO!

EMPLOYMENT OPPOPULATES





Solar offers challenging opportunities tor engineers in the fields of gas turbine engines airborne controls and advanced aircraft and missile components



suffer of your pushfications.







AVIONICS FOR THE FUTURE

Submit's Advanced Research in the Fuld

SYLVANIA 3 ENLYANDA ELECTRIC PRODUCTS INC Webben Laboratories

trpo intry to with or advanced about to believe and other 1920s. Your mines will be beauty conference and will be seen as and other YESTS. They in

BILLIO AMERAT CONTRACTOR

PUBLIC DELATIONS

VITRO LABORATORIES

Belle Air Frere Bess

are in YOUR favor

TEST

ENGINEERS Opportunities In ELOPIDA

To scronge a confidential interview.

REPUBLIC KNOWS HOW TO FIT AN ENGINEER WITH AN OPPORTUNITY

... how to select an advanced alecteff assignment that attitres an individual engineer's prefessional know-how and creative takents

AT RESIDENCE AND TOTAL OF SOCIETY OF STREET ... when a project is excepted, we never push the year

and the incredible new F-165 and F-100. Service ne-

This morae that your openings on continually below And Potably has a sidery saids and basedto decrease

POSITIONS OPEN AT ALL LEVELS IN: Acretynamics - Systems • Propobles • Operators Essench • Dynamics

 Wroppes Septems Anaboliz + Servo + Airframe & Machanisel Design + Realing Computers . Anternee . Controls Syrricon . Instrumentation

As appealing of country a familier in to big on hear being this days also made at the Paul Country

Engineering Personal State etc. | Administration Personal

EPUBLIC AVIATION

ACF Industries, Inc.

Openings At All Levels

Continues He notice of Danamic Leadership in Electronic Development

ation wheel for working & Kning

Fold Service Representatives Append ANDS of phonon light has been add to passes of the passessory are souted to join a treater Top Fo Dion . Total Alexan Technical Employment Dent.

AVION DIVISION Reute 17, Personal, New Jercey COlfex 1-6100

CESSNA AIRCRAFT COMPANY "Producers of the World's Finest Executive Air Floor"

UNUSUAL CAREER OPPORTUNITIES IN THE SALES AND SERVICE DIVISION

Must be computed pilot A hertspread of about not abstraces Had bern budeen merryenest de scools. Servi and bendqueras in Whites. Statement of 5 years experience in he

P yes men then represents and are interest in unlimited apportunitios with the model; include products of secondary plants, and was require and reast what Printed Street, William, Konsen, Die phone sells, plessel

TEST ENGINEERS DO YOU USE YOUR

ENVIRONMENT?

LARGRATORY will solve weeking with the flues of the equipment and facilities, regarder will top near of the fluid.

his we movedy appoped in the following. Expense! New Agriculture: COMPLEX WAXE ANALYSIS

Security of Scholad Panageral

SYSTEM

SPECIALIST \$15,000

EMPLOYMENT OPPORTUNITIES Your Application... CONFIDENTIAL

one you feel the need for a standating and wast outlet . . . Here at Philip we welcome mea with coverve referes . . .

THRUSTELLS RIVISION

With your aleas and experience in electronics, it's years **ENJOY THESE CONVENIENCES** to Philodelphic's benutiful suborbs · Schools and Colleges with Highest Sellings

Even more, Philos has one of the most liberal profe--Long Range Industrial and Diverse Military Engineering Fields-Breedon't Symposis - Perward Seater Communications - Fire Control Systems - ELEAP

Write, Phone Collect, or Apply in person to John F. Morelson. ... Year beauty will be held in Stricted Confedence PHILADELPHIA 44



ANIATION WITH Asset & 1956

20. 8. Weller, Dighter by Environment Park Sale Service Study Adding Lary

COMBUSTION AND PROPULSION RESEARCH

Personnel Incorporated in Innting contributes to the

of beloom we concrete the 272/74102 her 24194301 chelonies and responsible economic m

 Bo Mr Droge and Setting Propalities Over
 Propalities Over
 Propalities Over Propalition Development

For deteriative brachure, address inquiving to Paramonal Manager. RICHMOND & VIRGINIA APPRAISE - DEVELOPHENT - DEG RESERVO - PROTABLICO

AN INVITATION TO ENGINEERS

No, we have objectional programs, fragge breakly. Mend unlary works BUT more complement of Seculors with older to formal a brought used depth The prox is fact, the work domain high skill and acceptance, but to show who quality Review one offer a dater read to performed some We that you'll also value on we do the street long markets have to the branch New Hamphor had country than than on hour

HERY HAMPSHIE

ENAMES WITH Asset 6 1996



However, it should not be forgotten that the designerassembles the mass of data and perform the crewal

Full enteney benefits reclude servicios refousada alterances to Delias, where we feet a said some of our

social freedom in our close and uncounded surveyedings.

This is our pregnantly to tell deviation countries.

to neffrance and probatered components design, argo-

week, power plant, and electrical canaditation designs:

QUOUT AIRCRAFT



PHISLOYMENT OPPOSTUNITIES

CONTINENTAL

OFFES YOU A WIDE FILLD FOR SPECIALIZATION

Parked was read in at the records of any personal institute or comments or comments





TEAM UP WITH ALLIED RESEARCH

White leave 1 D 3 Fink the strain of party to opport the strain of the s

AVAILON WEE, August 4, 1716

No. 1 N. Hiller Sweeter Constitut Engineers - Physicists

On The Way CEPS

The Way CEPS

◆ Pinacol progress is the key to success for an individual as well as a below.
◆ Here at ENTEROCOSIS we know where we are going — our excess in factor lone, his such advanced forterentiated Bullation Mineless and ATLAS and ITTLAS, we too are on the view yet.
Mere than 1.50% goods confirm care and 200,000 to the fact that 1.50% goods confirm care and 200,000 to the confirmation of the c

as the Pauli new, tendy to our progress owner 1906.

— M YOU on an Engineer or Physiciet ., ON THE WAY UP ...

why not make the success with as in the resiston and development of the
submand new computer techniques which will be required to centred the
course, speed and altitude of each Intercontential Bellatte Mindels as

ATLAS and ITTAN as they are peopled out also space beyond the carble attempts of the attempts

THE Foremost Name IN COMPUTATION
To Meet Tomorrow's Chollenges Today

Barranghe lastes laquines from Those Qualified As:

• ELECTROCAL INCINEERS • ELECTROCACAL BROINERS
• MECHANICAL ENGINEERS • MICHARICAL OSSION ENGINEERS
• MATHEMATICIANS • PHYSICISTS

MATRIMATICIAMS
 PHYSICISTS
 In this fathering saids — convert Computers: Palse Consists, Oujsiad Computers, Oujsiad Computers, Oujsiad Commiss, Majo Sayard Alex Source, Ganded Massless, Said State County, Emission Productions, Majority Pales Paris Virging Commiss
Wrife our Telephopone M. E. JUNKINS, Placement Managare

Burroughs

New Historic Valley Force

ANATION WEEK Anne 6, 1956



DECING DESCRIPTION IN 5 British recognition determines in 2 States primary stellar and/or in Street corporations are recipied in Address also had analyze African composed almost analysis. In Editoria data, but analysis in Services in highlight color saving programs.
 African analysis and higher problems for any rigidal composer.

Cessna AIRCRAFT COMPANY POSITIONS VACUA

ENGINEERS: · air-berne entene enriveere

· project engineers on small receiving equipment · ivolesment designers

While with a prospected industry leader . . . expanding Arienic Division creates opportunities . . . complete engineering, laborawho are without to do a job . . . and be sewarded accordingly.

You'll like Racine . . . our plant overlasks beautiful Like Michigan . . . it's not one boar to Chacup . . and convenion to Wisconin's furnous North Woods lakes and resurts

Let's get accessated. You are invited to write the Director of Industrial Eclimans today. All communication say strictly



Summer Surveyers Farmers THE PARTY PARTY INC.

AERONAUTICAL ENGINEER

Please with y 2000, relative West. East, Adv. Do. 7 S. Sec. 10 J. E. N. N. T.

DESCRIPTION OF THE OWNER, OF milet the Philips

A SKILLED PILOT to me day and Comp. T.S.S. PROPERTY AND PERSONS ASSESSED.

Andreit - Dreffe & Economics Second Experience Absorb Serborre, Turbules Serborre St. Steve Serborre Child St.

from the and interest arrives to Section Alterio regioners being not to Sold Control of the Person of

Experienced Philips Specific Propriet States and Control of States recorded by Severa her change to extend the control of the control of the change and change and change to the property of the change of the control of the change of the c Park Such Sugra of the San For Art

rading—seeds advented. Personally construed on attentionic regulators in a charge of tableself; including its charge of tableself; including its classical work with personalities of other ground construint (results) or fifth and first order of the construint (results) or fifth dark or willed Aug 12, man first despite the days to serve passent consecution. Per 21 of Autoglion Meant. APPENDINGS

AMBIANTAGES OFFICERS

AMBIANTAGES OFFICERS

AND Explaints of the control of the industry line on manufact period invalidation of the industry line of the industry

on PART CONTRACTOR AND PARTY WILL SHOW & 1950

development PURCHASIS STATES

continuing of motions energy tores them observed and four

OPINIONS AT EMPIREMANT GROSS Andrew payber, streets active pro-P. O. See St. GENERAL M ELECTRIC EOR PATES OR

INFORMATION About Closeifod Advertising

Costost The McGraw-Hill Office Negreet you

1112 Deleven Best S. CONTY Differs Village, April 2 1 1927-007-927

PRINCIPAL I

AVIATION WEEK, Assett 6, 1996

ENGINEER, M. AL aero-thermodynamic

> "Give me a blace to stend ... and a rock and

will the earth"

> Today, so in Archimeder time, many a scientist and engineer is stymied through lack of facilities for research.

of an "out of this world" idea. worth or 'the place to stand, the lever and the rock' in these exciting and challenging fields: Missile guidance, control,

systems, undustrial electronics, an tennes, transistor and pulse ofecultry and Your resume soil receive immediate, confidential attention.

Address Technical Engineers Dureter FRANCISCO ELECTRONICS COMPANY, FORT MAXINE, INDIANA



........

a A Corner with a flature a Petlesment Sina a deeped Side Lacon a Guerra Jaconson a Liberal Tree Treesports Femily Feet Year

Too, how as a cases expedients with a real fature? You see only get all of these, and many more broader as a TWA Bloke

Deposing with the save year Finds Dauleous mounts meeting from pay one

many flavor CAA A&E Licenses before activities

Thou's a wenderful forces was no for you with TWA West today to Mr. E. Paul Day,

TRANS WORLD AIRLINES

Tent Exploses et

ARMA announces

development program for an advanced Air Force missile

1000 to 100 to \$10.000

And source is replicate to National of Desirated Processes, East 674

While the principle are single the restaulter travelers advanced practice engineering. ASMAN many encourage by the creation of

SPECIAL SERVICES AVIATION INDUSTRY

OVERHAUL A

Remmert-

Werner

There were by torn the

CONNECTORS

BENDOX CANDON INC. MON-SECTED

HAROLD H. FOWELL CO.

SALES REPRESENTATIVES

MUD-DESIRENCE REPRESENTATIVE

The Earlie States Street Street

New Advertisements

received by Ascount 18th well

errosser in the Assess 20th Issue subtest to businetions of many

AVEATION WEEK Asset & 1956

symiable.

Lodester DC3

PARTS A SUPPLIES

SEARCHLIGHT

TWIN. RONANZA

Non-Assessed State Street and Street

EXECUTIVE DC-3

Control Marine

JET ENGINES

Washington Type-L30-23

AIRTI ANES WANTED

Seed of Assessment, Spinister, 1874, 1974.

Wil day Senter Study Stor or Charle

Vest Aircraft Co.'s Skyreach

CONVAIR 240 or 340

SPARKHINGS WANTED

AIRCRAFT PRODUCTS

WANTED FOR MANUFACTURE

Will by sought-from Saring Ports, By she Communication All property from appelois market.

ANIATION WEEK, August 4, 1954

THE RESERVE OF THE

stee Cube Serious

PROPERTY AND ADDRESS.

freedom Appet Ton Floor (Tim 6 DH

engineers . . . physicists

NEW opportunities at

Motorola in Riverside

WORK IN A VACATIONLAND

(vour family will love year-round outdoor living)

WHILE YOU ADVANCE YOUR CAREER

This new Motorole Exceenth Laboratory or excending-

Electronic Engineers, Machanical Engineers, Physiology

Sin E Social Seri. S. Sille Instant Are. Supplies Call! Facelinat emportunities in PHOSMIX and CHICAGO

OPENINGS IN PHOENIX

Engineers Indiana. Nachanital Engineers. Afterward Arthurson

I from Markettees

MOTOROLA

. Millery Georgies Arabeta * Analog Companie Flight Shareholes

* District Company Analysis

* Digital Company States

State of Parish

CALIFORNIA

OPENINGS IN CHICAGO

No. 2 Woman



Modern - low-way, flash viceted, troopsk goes, healt in hydraulu In excellent condition - corrected in submitted sinhas service SEA SONARY SESCEN - Will also consider out sale sale

FOR

Chouse Brown & Push

Engine time 50H 50 hours WILLIAM C WOLD ASSOCIATES SE AND Avenue New York IT IS Y

for sale

Immediate Delivery

82000 81340 8985

I LOCKHEED LODESTAR Model 16-Sec. No. 2462-Think streeted I TOCKHEED IN Expellent Candition, Fermanic Atrine President's personal plone Riginar Sine 1500 No. . . * Neck II for many Total Time 830 Ma.** Aircraft gradiable for immediate inspection and delivery at our

Mysess focality. AM COSP OF MILAS Figure Security

PRATT & WHITNEY CONSTELLATION SPARES 1830.92 FNGINES CAA APPROVED SHOP AV AII ARI F

> andread TAR Alabaman Proces Wright \$2350 SD-1 Engine Ports Curting-March Prepality Parts New or MISO Sauce P2050 AD-1 Environ NTSO

> > AUTOMATIC PHOTS

MMUNICATION SYSTEM

MANUSATION AND

CALL DE METT CAPITAL AIRLINES ENGINE WORKS Goose G21A trein grap and

Eurol Aviation (Comoda) Und ANATION WHIC Asset & 1896

Announcing Remmert-Werner of Florida, Inc. at Pompano Beach airport consider participate annual region and alternative maintenance, convenient, and everbed for

No Treffic No landing free 90-91-100 Octobe ON The Airport Next to Airport

30 miles er less from all paints between Peles Beech and Minni * All services new available from special mobile shoot

WRIGHT-P&W DE HAVILLAND DOVE **ENGINES & PARTS** * The smooth motorcined "Line New"

R1820 Supra those 76 AK S R1830 Front Makes 1879 185 26 9 2 24 into aduc o lavorent fe61 -Steel betreeping agency R3350 fully smilled to syntax productor



7129 Vissland Avenue. North Hallywood, Coffornia POster 5-4222 Stanley 7-8374

SEARCHLIGHT SECTION

HELICOPTER Bliss-Medel US III. You low str "Take a Heading for Reading DAST SOME AVENTURE CORPORATION

AMMERICAN WEEK, Assent & 1938

MAINTENANCE - OVERVALL - MODULCATION - INSTALLATION BEADING AVIATION SERVICE, INC.



ANNOUNCING

THE ALL NEW 1954-1957 AMPORT AND BUSINESS FLYING DIRECTORY Just off the press . . . on accerate and detailed 276 page handbook of

thousands of business flying's vital facts and figures. The business thing handbook has been designed to meet the need expressed in your latters and necessary interviews for a reside suference of the locast full-scale information If desired, LAST YEAR MANY ORDERS WERE UNFILLED DUE TO KARLY "SELL OUT." BE SIDE YOU GET YOURS - THE CUT COLDON AND HAS IT NOW

EDFTORTS EXPORT: Including the latest technical and burness directionship slong with a locatest of Exture TIATT CONTENTION. Includes a 2-page specification, copensity compiled by the officers hall the major rail on creaters, recharded data, an the fundament blaces the cop, the number from and commit prices. INPORTS AND FACILITIES LOW up to dee support TEAPPIC WEATHER, COMMUNICATIONS INTO

Name and my may of the AMPONI AND MISSRESS RIVERS CONSCIDER and the appropriate their all U.S in the influence

MAIN COUPON NOW!

AVAIDON WIEK, August 6, 1956

ADVERTISERS IN THIS ISSUE

Name (April 2) Company (a) A TOTAL STATE OF The s Mary Thomas Town To Chicke William Control with a product of ANGELY RESPECT VILLE CONTROL OF

ARTOLD STREET ALLE CHARLES BARRY OF STREET COMPANY OF sermon invited by salates the rooms servers AND DESCRIPTION OF THE PARTY OF PERSONS PARTE SERVICE L'ARREST CONTRA Control of the contract AND SECTION OF PRINCIPALITY with married desired, point, and Self Miles & Street Street

APPROPERTY OF REPORT OF THE Appearant from abundan Lan * A - DOTTE COLUMN TO AND

and the other latters Delivery of the lates of the la MACHINE THE PARTY AND THE PERSON NAMED IN with the little states OFFICE PROPERTY FOR SALES PROPERTY Charles State State Strategy over DESCRIPTION OF THE PARTY OF THE

PERSONAL PROPERTY AND ADDRESS. of the Park Park In Charge WHEN PERSON NAMED AND POST OFFI

college compatible influence consum selections and property that organ a Chi at Special, research cally in Charles and the line OFFICE STREET, SALES SHOW WE WANTED carrie white our glasses and

College State Printer Street or THE RESERVE OF STREET State The Late of the AND DESCRIPTION OF THE PARTY.

Charles and the contract of th lines, letteratives me distriction on

> Apparts Separat a - Married Coun. CONTRACTOR STATES this to organ I wind our STATE OF THE PERSON NAMED IN int strong had like a to Weights

PACTURED AND STREET, SANS selection of the party ... in the late in -000 14-000 TOP-1 DESCRIPTION ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESS of the west the street on PERSONAL PROPERTY AND PROPERTY. office Process Observer CONTRACTOR OF THE PARTY OF THE tipe of the siles were CHICAGO PROCESSOR PROPERTY A ST

CHARLE CHEST ENGINEERING CHAR PRODUCED STREAM THE SERVER Marine State of Street, Square, Square, entitle of a will rette commun As an owner, but he was - The Property of the state ATTENDED TO STATE AND ADDRESS. eller Conseller is

Action between the Printers of evidence of the same of the sa CONTRACTOR STATE OF S

POSTER LANGUAGE TO LANGUE STATE OF THE PARTY. additional flower to the first term to or the same with the which is the state of the state



TORRINGTON Needle Rollers for the ultimate in load capacity at low cost



senared in a complete line to most SAE and AFBMA spendestons. Available to the mergensive ordered and Egish are the highest in the industry. Good countries results with Needle Rollers require with broad experience in applications of Nicola Rallers will be eled to rive you technical advice on your people THE TORRINGTON COMPANY



Decimentan Conn.

South Bend 21, Ind.

TOTAL TOTAL TOTAL OF SEPTEMBER 1990 A Lairy Inc. AND THE PERSON NAMED OF THE PERSON NAMED IN PERSONAL PROPERTY COST (SCHOOLS) - IN AND SHEET AND DESCRIPTION OF

CAPPETTE CONTACT. salary of Product Darkship of Contrast or BOOK SHEET TO STR. sales and Tolera MARINE MATERIAL DAY OF THE R. L. ANTO DESIGNATION OF TAXAB

A STORY OF BUILDINGS ON OF Way Res av PROPERTY OF THE PARTY OF THE PA BATTERIA, CARR SECURES COMPARY partition, married the first or outst. ACCOUNTS OF THE PARTY OF

MANUAL PRINTS A ART AT MATE AND SELECT STATES OF THE PARTY AND THE THE PARTY OF THE PARTY AND PARTY. of the of the Ten to the same

CAMPANDA PROPERTY FAR BOOKS IN ethan farm off thoras TANADA DE CHOLEST PART STATE THE PARTY NAMED IN office and desired the Sales St.

AND DESCRIPTION OF VALUE OF Metal De State of the second AND STREET with our budges sails are in the sail of the sails a THE PARTY NAMED IN ANT AND CONCESSION SHAR MANUFACTURE BY INCOME CHIS SHARRY STREET, ST. IS

SALE CONTRACTOR COME STATE TO APPROVED THE PARTY SERVICE.

Sill Fall Language

salah Amini kuma Punt & Salay to TARREST PROPERTY AND PARTY. GEORGE COMPANY IN SQUEEZING STRONG TO ACT | STORY IS SHOWN A ASSESSMENT OF PERSON FOR THE SEC. | STORY IS SHOWN AS A SEC. | STORY IS SHOWN A SCHOOLS BY METER STATES DEEP BE OF PORTOR COMP AND DO salutena schelastica Yes, relicides can en saires



MISSILE ...

Mak pressure and regulation act us reselding politics bonds for many mechanical controls, regulating anerating prematers of all recess reactive as comings. lone with visces and effectiveness skilled engineers who have made In-trade of Century Controls Cor-

to keep them an course, Century's

the order marries or Version

Applications of Name and

ALEXANDER SERVICE

Age of the party of the code

ONE PROPERTY AND ASSESSMENT OF THE

POST PRODUCT IN ST OF PERSON

STANDARD OF CHAPTERS OF CALIFFRID

stating ratings than to largely

Other Products: Absolute & Gary Pressure Regulators Vent Pressure Ridge Valves, Ary Flow Controls, Shet-off Valvas. Control problems, wednesder ... palatines, based upon Personnels, presently spherical.





THE FELLOW IS TRACED IN YOUR ROSPINGS. His ream deby so to treed the country—and wards—pearstosing the plants, laborateries and management countils—respecting hock to you every significant transvistom in solonalogy, selling to-like, measurement selectory. He functions so your afforcing, all-hearing, little parting hashess com-

THE MAN WE MEAN IS A CONFORM of the adjusted stell of this imagenine. For, obviously, no one individual could over accomplish such a wast bettern more pits. It's the could of many qualified man of invention and succession talents.

ANA, THERM'S ASSESSED FOR THE "CONFIDENCE MANA", much as complete move service which complete move service which complete move delivered movement of the magnetis — the absentiving pages. BY horse sold that its a bearene problement the drill man place till "how they do it" — "they" hour, all the andsony's frent has of innextern and upon each to advertising pages till "with whot." Each hour unfolded on without all opposition before your — prong cliffs on what they also produce the page of the page.

SUCH A "MAN" IS ON TOTH PATROLL. He was to "listen" regularly and carefully to the practical business information be proben.

McGRAW-HILL PUBLICATIONS

Committee of the commit

Charles Andreas By the work of the control of the c

AND DESCRIPTION OF STREET

A CONTROL OF THE CONT

William Service of the Control of th

ANUATION WISE, Asper 6, 1956

Get everything you need and more aireraft-missile relavs Leach is storing shood of new design onexpressests to give you reliable, precured performance under the most severe Right RESISTANCE TO GREATER SPOCE AND VIEW new-Leach exceeds MIL speed to ability to tupes as high at 150°C ambient.... SPACE-SAVING DESIGN-Louch system-225 more releas so the space required by Leach's leadership in the field of continues-Leach when moves rehability is vital and

> STITE AVAILABLE BOOLEVARE, 100 ANGELES E, CAUPOINIA BELIEFE CONCES AND APPROXIMATING OF MANDING DUE OF U.S. AND CONCEA

Orusader....1956 A.D.

His weapon—Chance Yought's supersonic interceptor—while infinitely more complex, it must be just as reliable as his forebearer's sword.



Sub-systems such as this Servamechanisms, Inc., Angle of Attack and Mach computer do their part in assuring that American Military Aircraft maintain their leadership in performance and reliability.

SERVOMECHONISMS

WESTERN DIVISION Hawtharne, California EASTERN DIVISION

MECHATROL DIVISION

CHAPONENTS DIVISION